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Presented for filing is a new continuation in part patent application of:

Applicant: DAVID STROBER

VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT Title:

USING A SWAPPABLE MEDIA PLAYER

Assignee: Touchstream Technologies, Inc.

Enclosed are the following papers, including those required to receive a filing date

under 37 C.F.R. § 1.53(b):

Pages Specification 17 Claims 7 Abstract

Declaration [To be Filed at a Later Date]

Drawing(s)

Enclosures:

— Application Data Sheet, 5 pages.

— Information disclosure statement, 1 page.

PTO-1449, 4 pages.

Applicant claims small entity status. See 37 CFR 1.27.

FISH & RICHARDSON P.C.

Commissioner for Patents June 25, 2012 Page 2

Basic Filing Fee			\$95
Search Fee			\$310
Examination Fee			\$125
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The filing fee in the amount of \$805 is being paid concurrently herewith on the Electronic Filing System (EFS) by way of Deposit Account authorization. Please apply all charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 30160-0005001.

If this application is found to be incomplete, or if a telephone conference would otherwise be helpful, please call the undersigned at (212) 765-5070.

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VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

RELATED APPLICATION(S)

[0001] The present application is a continuation-in-part of U.S. Application No. 13/157,821, filed on June 10, 2011, which in turn claims the benefit of priority of U.S. Provisional Patent Application No. 61/477,998, filed on April 21, 2011. The contents of the earlier applications are incorporated herein by reference.

BACKGROUND

[0002] Techniques are known to facilitate operating a display device remotely from a personal computing device, such as a mobile phone, in order to view a video file or other content on the display device. For example, U.S. Patent Application No. 13/157,821 describes a system in which a server system acts as a single interface that can be used to control any one of multiple media players (*i.e.*, computer software applications for playing video or other content) that may be needed to play different video or other files on a display device such as a television screen. As an example, the display device may receive from the server system a message, based on input from a mobile phone, that instructs the display device to access a content provider, load a specific media player, load specific content (e.g., a video) to be played on the display device, and play the content on the display device using the media player.

[0003] Recently, various types of display devices have become popular and their use has become widespread. For example, some applications can be run on a gaming console, a tablet computer, a television set, or a set-top box, where the display device serves as a platform for audio-visual media such as books, movies, music, games or web content. However, some of these display devices have somewhat limited processing power and, therefore, may not be sufficiently powerful to run a swappable media player such as described in the foregoing patent application. Thus, using the techniques described in the foregoing patent application to control the display of content on such display devices presents a challenge.

SUMMARY

[0004] The present disclosure describes techniques to facilitate controlling the content that is displayed on various display devices, using a personal computing device such as a mobile phone. The techniques make use of a display host that acts, in part, as a swappable media player so that a wide range of video or other content can be played on the display device regardless of the particular media player that may be needed to play the video or other file.

[0005] In one aspect, for example, a machine-implemented method of presenting content on a display device includes receiving, in a display host, a communication from a display device. The display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content. The method includes opening a first session using a first instance of the swappable media player, and requesting assignment of a unique identifier for the first session from a switchboard server system. A unique identifier for the first session is received from the switchboard server system. The method includes displaying the unique identifier in the first session, and causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

[0006] The foregoing method can be used, for example, to establish a link between a particular instance of the swappable media player and a particular display device. The unique identifier displayed on the virtual client residing on the display device then can be entered into a computing device (e.g., a mobile phone) that is to be used to select and control the playing of content on the display device.

[0007] According to another aspect, the method includes receiving in the display host a message indicating that particular content is to be played in a first session using a specified media player. The specified media player can be retrieved and loaded, and the particular content can be played in the first session using the specified media player. The

method can include causing a presentation of the content to be mirrored onto the virtual client residing on the display device. In some implementations, the method includes receiving in the display host a second message indicating that particular second content is to be played in the first session using a specified second media player. The specified second media player can be retrieved and loaded, and the particular second content can be played in the first session using the specified second media player. The method can include causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

[0008] Systems for presenting content are described as well. For example, in some implementations, a system for presenting content includes a display device storing a virtual client. The system includes a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content. The system also includes a switchboard server system. The display host is operable to perform operations including receiving from the switchboard server system a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player, retrieving and loading the specified media player from a content provider using the first instance of the swappable media player, playing the particular content in a first session using the specified media player, and causing a presentation of the content to be mirrored onto the virtual client residing on the display device. In some implementations, the message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player includes a unique identifier for the first session. Also, in some implementations, the display host is further operable to incorporate a watermark into the content before the content is mirrored onto the virtual client, wherein the watermark includes the unique identifier.

[0009] Various implementations include one or more of the following advantages. For example, the techniques described here can be used even if the display device has somewhat limited processing power and would not be sufficiently powerful to run the

swappable media player. Furthermore, the techniques can facilitate centralized processing of the swappable media player for multiple display devices (e.g., television sets located in multiple guest rooms in a hotel).

[0010] Other aspects, features and advantages will be apparent from the following detailed description, the accompanying drawings, and the claims.

BRIEF DECSRIPTION OF THE DRAWINGS

[0011] FIG. 1 is a block diagram illustrating an example of a system according to the invention.

[0012] FIG. 2 illustrates a method for establishing a session for playing content on a user-selected display device using a swappable media player.

[0013] FIG. 3 illustrates an example for playing user-selected content on a user-selected display device.

[0014] FIG. 4 illustrates another example for playing user-selected content on a user-selected display device.

DETAILED DESCRIPTION

[0015] As shown in FIG. 1, a system 10 synchronizes a connection between a control device 20 and a display device 23 to facilitate the playing of content on the display device 23. For example, a user of the first device 20 can select content and control the content displayed on the display device 23. For purposes of illustration, in the following discussion, it is assumed that first device 20 is a personal computing device such as a mobile phone that includes a display, an internal microprocessor or other processing circuitry, a keypad, keyboard, touchscreen, mouse, trackball, or other device to receive user selections and other input, and a transceiver to establish communications to the Internet 21. More generally, however, the first device 20 can be any type of handheld or other Internet-enabled personal computing device, including personal computers, e-books, kiosks, tablets, smart phones and media players. In some cases, input from the user can be received in forms other than tactile input (e.g., acoustic or speech). Examples of the display device 23 include a gaming console, tablet computer, set-top

box, television set, personal computer or laptop computer with a display screen. In some implementations, the display device 23 may have limited processing power. Although FIG. 1 shows only a single display device 23 coupled to the display host 22, there may be multiple display devices coupled to the display host 23 at the same time. Furthermore, the display devices may be of different types.

[0016] In the illustrated example, the mobile phone 20 is operable to display an application or web site that contains information and links to content providers 30 on a computer network such as the Internet 21. A display host 22, which may be implemented, for example, as a server system or other computing device (e.g., a personal home computer), is coupled to the Internet and is operable to link back to a switchboard server system 24 from which the display host 22 receives messages regarding the playing of specified content.

[0017] The display host 22 is operable to execute multiple sessions of a browser each of which operates as a swappable media player. Each session operates as a virtual display device that includes a unique instance 27 of the swappable media player and is assigned a unique synchronization code ("sync code"), which serves as an identifier for the session. Each session is associated with a specified display device such as the display device 23. The display device 23 may be connected to the display host, for example, through a wireless connection, a wired connection (e.g., a co-axial cable), or through the Internet 21 or other network.

[0018] The various instances 27 of the swappable media player run on the display host 22 are independent of one another. Thus, each instance 27 of the swappable media player can play content (e.g., a video) during a particular session that differs from the content being played by other instances 27. Furthermore, the different instances 27 of the swappable media player running on the display host 22 may use different media players (i.e., software applications to play the content) from one another depending on the particular content being played by each instance. In addition, as discussed in greater

detail below, each particular instance 27 of the swappable media player can retrieve the appropriate media player needed to play the specified content.

[0019] In the illustrated example, the display device 23 includes a thin, virtual client 25 that can display content (e.g., a video) being played by a specific instance 27 of the swappable media player on the display host 22. The virtual client 25 relies on the display host 22 to perform the data processing required for displaying the selected content. The display device 23 may be a dedicated thin client terminal or a computing device with thin client software that sends user input to the display host 22 and receives screen output in return. Although the virtual client 25 processes the user interface, it need not process data.

[0020] As explained in greater detail below, the virtual client 25 can have a unique identifier associated with it. In some cases, the unique identifier may be assigned when the software program is downloaded to the display device 23. When the display device 23 connects to the display host 22, the unique identifier associated with the virtual client 25 on the display device 23 is paired with a unique assigned sync code, which, in turn, is associated with a particular instance 27 of the swappable media player so that the appropriate session is paired with the correct virtual client and display device (e.g., virtual client 25 on display device 23).

[0021] The following paragraphs describe how a connection can be established between the mobile phone 20 and the display device 23 so that the mobile phone can be used to control the display and playing of content on the display device 23. As indicated by FIG. 2, when the display device 23 initially connects to the display host 22, the display device 23 sends the unique identifier associated with the virtual client 25 to the display host 22 (see 100 in FIG. 2). In the event there is no such unique identifier provided by the display device 23, the display host 22 automatically can assign a unique identifier to the display device 23. The display host 22 opens a session using a particular instance 27 of the swappable media player (see 102 in FIG. 2). The session is associated uniquely with the identifier for the virtual client 25/display device 23. The display host 22, which

stores (e.g., in a database) the one-to-one correspondence between the session and the display device 23, also requests a sync code from the switchboard server system 24 (see 104 in FIG. 2). The switchboard server system 24 assigns a unique sync code to be used by the display host 23 for the session (see 106 in FIG. 2), and stores the correspondence between the sync code and the display host session in a database for future reference. The switchboard server system 24 includes a sync code generator 29 to generate the sync codes and can use, for example, the display host's browser cookie as an identifier for the display host 23. The switchboard server system 24 then sends the assigned sync code to the display host 22 (see 108 in FIG. 2). Upon receiving the sync code assigned to the particular session, the display host 22 stores (e.g., in a database) the association between the sync code and the particular session, and displays an image of the sync code in the corresponding instance 27 of the swappable media player (see 110 in FIG. 2). The image displayed in the instance 27 is mirrored onto the virtual client 25 on the display device 23 using, for example, a virtual network connection (VMC) or other virtualization technology (see 112 in FIG. 2). The sync code may be displayed, for example, as text or as a QR code.

[0022] Once the sync code appears on the display device 23, the user of the mobile phone 20 can enter the sync code into the mobile phone, for example, manually (e.g., using a keyboard) or by scanning the displayed sync code into the mobile phone (see 114 in FIG. 2). The code can be scanned, for example, using optical scanning or RFID techniques. The mobile phone 20 then sends a message containing the sync code to the switchboard server system 24 (see 116 in FIG. 2), which associates the received sync code with the matching sync code already stored in its database (see 118 in FIG. 2). The switchboard server system 24 includes a look-up table 36 that, based on the sync code, stores the correspondence between the mobile phone 20 and the session of the swappable media player on the display host 22. Thus, once the sync code is entered into, or captured by, the mobile phone 20, it is sent from the mobile phone 20 to the switchboard server system 24, which stores the information in the look-up table 36 so as to establish a connection, through the switchboard server system 24, between the mobile phone 20 and the particular session of the swappable media player on the display device 23. As there is

a one-to-one correspondence between the sync code, the particular session on the display host 22 and the display device 23, the mobile phone 20 effectively can be paired with, and thus connected to, the virtual client 25 operating on the display device 23 by way of the switchboard server system 24 and the unique session of the swappable media player running on the display host 22.

[0023] Next, the switchboard server system 24 sends a message to the display host 22 indicating that the swappable media player on the display host 22 and the mobile device 20 are connected (see 120 in FIG. 2). The particular instance 27 of the swappable media player can display an indication (e.g., a message or other indicator) that it is connected to the mobile device 20 (see 122 in FIG. 2). This indication is mirrored onto the display device 23 (see 124 in FIG. 2), allowing the user of the mobile phone 20 to confirm that the phone can be used to control the playing of content on the display device 23, as explained below.

[0024] The following paragraphs describe how a user of the mobile phone 20 can select content and cause the content to be displayed on the display device 23. When a user makes a selection using the mobile phone 20 for particular content to be displayed on the display device 23, a message is sent through the Internet 21 to the switchboard server system 24. The message may, for example, identify particular content to be played and a media player needed to play the content, and also may contain the sync code. A corresponding message then is passed along to the display host 22, which acts on a transmission code contained within the signal and performs specified actions based on the transmission code. For example, in some scenarios, the message from the switchboard server system 24 instructs the particular instance 27 of the swappable media player on the display host 22 to access a content provider 30 through the Internet 21, load a specific media player, load the media player-specific content and play the content. The particular instance 27 of the swappable media player on the display host 22 plays the specified content using the session of the swappable media player associated with the display device 23. The contents of the session are mirrored automatically onto the display device 23 via the virtual client 25, thereby allowing the user of the mobile phone 20 to view the

content on the display device 23. The mobile phone 20 also can be used to issue playback commands (e.g., play, pause, fast-forward, rewind, stop, etc.) to control the session.

[0025] Although in some examples the content is a video to be played on the display 23, the system 10 can be used for other types of content as well. Thus, depending on the implementation, the content may include one or more of the following: video, audio, interactive video game, streaming media, multimedia, images, slides (e.g., a PowerPoint presentation) or other types of dynamic content.

[0026] FIG. 3 illustrates further details of the flow of information and signals according to some implementations. The mobile phone 20 is operable to display an application or web site that contains information and links to content providers 30 on the Internet 21. The user operates the mobile phone 20 so as to start the application or access the web site (block 200). In some implementations, a logo appears on the mobile phone's display. By selecting the logo, the user causes a menu to expand and present various options. The options can include, for example: (i) add new content to a playlist, (ii) play a listed item on a secondary device, (iii) play a listed item on the mobile phone 20. If the user selects to add new content to the playlist, the user is presented with a screen that allows him to enter user-defined search parameters or to select predefined search parameters to request video data. The search parameters are sent from the mobile phone 20 as part of a request for video data that satisfy the search parameters (block 202). The request is transmitted via the Internet 21 to the appropriate content provider web site. In response, the content provider 30 provides metadata (e.g., titles, links to the videos) for one or more video files that satisfy the search parameters. The metadata can be provided to the mobile phone 20, for example, in the form of an XML data file 204. Upon receiving the data file, the mobile phone 20 displays a list of one or more videos based on the information received from the content provider 30 (block 206).

[0027] If desired, the user can take one of several actions, including selecting one of the videos from the displayed list to be played or initiating a command with respect to a

video that already has been loaded to the display host 22 (blocks 208). The mobile phone 20 then formats and transmits a message to the switchboard server system 24 (block 210). The message from the mobile phone 20 contains a transmission code that includes data regarding the user information (e.g., user identification or account number), the location and name of the media player for the selected video, a playback command (e.g., play, pause, rewind, fast-forward, etc.), and the video file to be acted upon. The message also includes the sync code previously acquired from the display device 23.

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[0028] The message from the mobile phone 20 is transmitted over the Internet or other network 21 and is received by the switchboard server system 24 (block 212). Based on information in the message from the mobile phone 20, the switchboard server system 24 can verify that the user has an account (block 214), and the contents of the message, as well as the date and time of receipt of the message, can be added to a personal computing device database 32 (block 216) which forms part of a switchboard 28 (see FIG. 1). In general, all messages from a particular user's personal computing device 20 can be stored in the database 32 corresponding to an account for the particular user. Thus, the database 32 stores a record of all messages received from a user's personal computing device 20, as well as the user's identification, an indication of the host display 22, an identification of the media player that is required for the selected video, and an identification of the selected video. The switchboard server system 24 also can perform a target verification (block 218), which can include checking whether a connection to the display host 22 already is established for the mobile phone 20. Signals sent from the mobile device 20 to its associated database 32 are copied to a database 34 associated with the session of the swappable media player on the display host 22 based on the sync code.

[0029] In the illustrated implementation, the playback control command in the message from the mobile phone 20 contains a JavaScript reference to control the media player needed to play the selected video. Various types of video players may use different JavaScript commands to control their respective playback. Therefore, in the illustrated implementation, a universal adapter 26 is provided to interpret and convert a standard or universal command (e.g., play, pause, etc.) into the specific command recognized by the

media player. Each time a signal is received from the mobile device 20, the API adapter 26 checks and identifies the specific media player that is being requested. Based on this information, the system loads the appropriate set of protocols or application programming interfaces (APIs) from its library and converts the incoming commands from the mobile device 20 into the correct JavaScript (or other programming) code used by the target device 22 to control the specific media player (block 220). The switchboard server system 24 then copies the converted version of the message to the database 34 associated with the display host 22, as indicated above in connection with block 222.

[0030] The universal adapter 26 can be implemented, for example, as a look-up table. For example, for a universal command "New Video," the universal adapter 26 provides the corresponding command for each of several specific media players (e.g., "yt_loadVideo" for YouTube). Similarly, for a universal command "Pause," the universal adapter 26 provides the corresponding command for each of several specific media players (e.g., "pauseVideo" for Ted.com). Other universal commands and the corresponding command(s) for one of more media players (i.e., software applications to play the content) also can be stored by the universal adapter 26.

[0031] The display host 22 periodically checks the entries in the database 34 to determine if there are any new messages for it (block 224). For example, in some implementations, the display host 22 polls the associated database 34 at some predetermined time interval (e.g., every half second). In some implementations, instead of the display host 22 periodically checking whether there are any messages for it in the database 34, the server system 24 can push the messages to the display host 22. In any event, the system is arranged so that the display host 22 receives the messages intended for it.

[0032] When the display host 22 receives a message from the switchboard server system 24 (block 226), the display host executes the message (block 228). In some cases, the media player required to play the video indicated in the message is not presently loaded in the display host 22. For example, the received command may be to "play" a particular video. If the media player needed to play the video is not already loaded in the display

host 22, the display host 22 requests and obtains a copy of the appropriate media player 40 as well as a copy of the video file 42 from a content provider 30, loads the media player and then plays the video in the particular session of the swappable media player indicated by the sync code (block 230). Likewise, if the appropriate media player already is loaded in the display device, but the particular video is not, then the display host 22 requests and obtains a copy of the video file 42 from the content provider 30 and proceeds to play the video in the particular session based on the sync code.

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[0033] As the session of the swappable media player on the display host 22 plays the video, each frame is captured and transmitted to the display device 23 using for example, appropriate virtualization technology (e.g., a virtual network connection). Thus, the video playing in the particular session associated with the display device 23 is mirrored onto the virtual client 25 running on the display device 23 in substantially real time, thereby allowing the user to view the video on the display device 23.

[0034] Once the video is playing on the display device 22, the user of the mobile phone 20 can control the playing of the video by entering appropriate commands (e.g., pause, fast forward, rewind, stop, play, etc.) through the mobile phone. Each command is incorporated into a message that is transmitted to the switchboard server system 24, which copies the message into database entries associated with the particular display host 22 (i.e., after performing any conversion of the command by the API adapter 26). Once the message is retrieved by or sent to the display host 22, the display host proceeds to execute the command.

[0035] The user of the mobile phone 20 may subsequently select other content to be played on the display device 23. If a different media player is needed to play this other content, the particular instance 27 of the swappable media player that is associated with the sync code retrieves the appropriate media player from a content provider 30. Thus, the same session of the swappable media player on the display host 22 can be used to play the other content regardless of whether the same or a different media player is needed.

[0036] In some implementations it may be desirable to provide a form of digital rights security with respect to the content that is being provided to the display device 23. For example, as shown in FIG. 4, before providing the requested content to the display device 23, a watermarking module 50 in the display host 22 can provide a watermark that incorporates, for example, a time stamp, the sync code, and the unique identifier associated with the virtual client 25 and the display device 23. The watermark can be inserted, for example, into the content (e.g., the video) using known techniques in a manner that is detectable by software, but that is not discernable by the human eye. In some cases, the video signal that is transmitted to the virtual client 25 can be encrypted by the display host 22 and then decrypted on the client side.

[0037] As mentioned above, the system and methods described above also can be used with various types of content other than video. In that case, different types of user-initiated commands may be available to control playing or display of the content. For example, for interactive video games, the user-initiated commands may include control commands appropriate for the particular game.

[0038] Although in many scenarios there will be a one-to-one correspondence between a computing device 20 that controls the content on a display device 23, the techniques described here also can be incorporated into co-viewing situations, for example, where multiple computing devices (e.g., mobile phones) interact with a single display device 23, a single computing device 20 controls communications with multiple displays 23, or multiple computing devices 20 control communications with multiple displays 23.

[0039] For example, a single computing device 20 may be used to control multiple display devices 23 so that the same content is displayed on each of the display devices at the same time (e.g., multiple televisions sets in a bar). In that case, a different sync code may be associated with each of the display devices 23, with each display device 23 associated with a different session of the swappable media player on the display host 22. Each message from the computing device 20 may include a series of sync codes so that

all of the display devices are controlled using the same message from the computing device 20. In other implementations, each message from the computing device 20 may include a group identifier, which is associated at the switchboard server system 24 with multiple sync codes, each of which corresponds to a different session of the swappable media player on the display host 22.

[0040] The techniques described in this document can be applied in a wide range of contexts. For example, a hotel can have a central server that operates as the display host 22 and each television in the guest rooms can serve as a virtual client 25. The techniques also can be applied beyond a single location. For example, a cable operator can host the display host 22 and a set-top box in each subscriber's home can serve as a virtual client 25. In addition, a personal home computer can serve as the host display 22, with one or more display devices 23 connected to it.

[0041] Implementations of the subject matter and the operations described in this specification can include digital electronic circuitry, or in computer software, firmware, or hardware, including the structures disclosed in this specification and their structural equivalents, or in combinations of one or more of them. Implementations of the subject matter described in this specification can include one or more computer programs, i.e., one or more modules of computer program instructions, encoded on computer storage medium for execution by, or to control the operation of, data processing apparatus. Alternatively or in addition, the program instructions can be encoded on an artificially-generated propagated signal, e.g., a machine-generated electrical, optical, or electromagnetic signal that is generated to encode information for transmission to suitable receiver apparatus for execution by a data processing apparatus. A computer storage medium can be, or can be included in, a computer-readable storage device, a computer-readable storage substrate, a random or serial access memory array or device, or a combination of one or more of them. Moreover, while a computer storage medium is not a propagated signal, a computer storage medium can be a source or destination of computer program instructions encoded in an artificially-generated propagated signal.

The computer storage medium can also be, or be included in, one or more separate physical components or media (e.g., multiple CDs, disks, or other storage devices).

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[0042] The operations described in this specification can include operations performed by a data processing apparatus on data stored on one or more computer-readable storage devices or received from other sources. The term "data processing apparatus" encompasses all kinds of apparatus, devices, and machines for processing data, including by way of example a programmable processor, a computer, a system on a chip, or multiple ones, or combinations, of the foregoing. The apparatus and execution environment can realize various different computing model infrastructures, such as web services, distributed computing and grid computing infrastructures.

[0043] A computer program (also known as a program, software, software application, script, or code) can be written in any form of programming language, including compiled or interpreted languages, declarative or procedural languages, and it can be deployed in any form, including as a stand-alone program or as a module, component, subroutine, object, or other unit suitable for use in a computing environment. A computer program may, but need not, correspond to a file in a file system. A program can be stored in a portion of a file that holds other programs or data (e.g., one or more scripts stored in a markup language document), in a single file dedicated to the program in question, or in multiple coordinated files (e.g., files that store one or more modules, sub-programs, or portions of code). A computer program can be deployed to be executed on one computer or on multiple computers that are located at one site or distributed across multiple sites and interconnected by a communication network.

[0044] Processors suitable for the execution of a computer program include, by way of example, both general and special purpose microprocessors, and any one or more processors of any kind of digital computer. Generally, a processor will receive instructions and data from a read-only memory or a random access memory or both. Elements of a computer include a processor for performing actions in accordance with instructions and one or more memory devices for storing instructions and data.

[0045] Generally, a computer will also include, or be operatively coupled to receive data from or transfer data to, or both, one or more mass storage devices for storing data, e.g., magnetic, magneto-optical disks, or optical disks. However, a computer need not have such devices. Moreover, a computer can be embedded in another device, e.g., a mobile telephone, a personal digital assistant (PDA), a mobile, audio or video player, a game console, a Global Positioning System (GPS) receiver, or a portable storage device (e.g., a universal serial bus (USB) flash drive), to name just a few. Devices suitable for storing computer program instructions and data include all forms of non-volatile memory, media and memory devices, including by way of example semiconductor memory devices, e.g., EPROM, EEPROM, and flash memory devices; magnetic disks, e.g., internal hard disks or removable disks; magneto-optical disks; and CD-ROM and DVD-ROM disks. The processor and the memory can be supplemented by, or incorporated in, special purpose logic circuitry.

[0046] Although this specification contains many specific implementation details, these should not be construed as limitations on the scope of any inventions or of what may be claimed, but rather as descriptions of features specific to particular implementations of particular inventions. Certain features that are described in this specification in the context of separate implementations can also be implemented in combination in a single implementation. Conversely, various features that are described in the context of a single implementation can also be implemented in multiple implementations separately or in any suitable subcombination. Moreover, although features may be described above as acting in certain combinations and even initially claimed as such, one or more features from a claimed combination can in some cases be excised from the combination, and the claimed combination may be directed to a subcombination or variation of a subcombination.

[0047] Similarly, while operations are depicted in the drawings in a particular order, this should not be understood as requiring that such operations be performed in the particular order shown or in sequential order, or that all illustrated operations be performed, to

achieve desirable results. In certain circumstances, multitasking and parallel processing may be advantageous. Moreover, the separation of various system components in the implementations described herein and the attachments hereto should not be understood as requiring such separation in all implementations, and it should be understood that the described program components and systems can generally be integrated together in a single software product or packaged into multiple software products.

[0048] Thus, although particular implementations have been described, other implementations are within the scope of the claims.

What is claimed is:

1. A machine-implemented method of presenting content on a display device, the method comprising:

receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

opening a first session using a first instance of the swappable media player; requesting assignment of a unique identifier for the first session from a switchboard server system;

receiving a unique identifier for the first session from the switchboard server system;

displaying the unique identifier in the first session; and causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

- 2. The method of claim 1 wherein the unique identifier comprises a QR code.
- 3. The method of claim 1 further including:

receiving in the display host a message indicating that particular content is to be played in the first session using a specified media player;

retrieving and loading the specified media player;

playing the particular content in the first session using the specified media player; and

causing a presentation of the content to be mirrored onto the virtual client residing on the display device.

4. The method of claim 3 further including:

receiving in the display host a second message indicating that particular second content is to be played in the first session using a specified second media player;

retrieving and loading the second media player;

playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

- 5. The method of claim 1 wherein the content comprises video.
- 6. The method of claim 1 wherein the content comprises streaming media.
- 7. The method of claim 1 wherein the content comprises visual content.
- 8. The method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier.
- 9. The method of claim 1 further including:

receiving, in the display host, a communication from a second display device; opening a second session using a second instance of the swappable media player; requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session; and causing the second unique identifier to be mirrored onto a virtual client residing on the second display device.

10. The method of claim 9 further including:

receiving in the display host a second message indicating that particular second content is to be played in the second session using a specified second media player; retrieving and loading the second media player;

playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

- 11. The method of claim 10 wherein the first and second sessions at least partially overlap in time with one another.
- 12. The method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.
- 13. A system for presenting content comprising:
 - a display device storing a virtual client;
- a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; and
 - a switchboard server system,
 - wherein the display host is operable to perform operations including:
 - receiving a communication from the display device;
 - opening a first session using a first instance of the swappable media player;
- requesting assignment of a unique identifier for the first session from the switchboard server system;
- receiving a unique identifier for the first session from the switchboard server system;
 - displaying the unique identifier in the first session; and
- causing the image of the unique identifier to be mirrored onto the virtual client residing on the display device.

14. The system of claim 13 wherein the display host is further operable to perform operations including:

receiving a message from the switchboard server system indicating that particular content is to be played in the first session using a specified media player;

retrieving the second media player from a content provider and loading the second media player;

playing the particular content in the first session using the specified media player; and

causing a presentation of the content to be mirrored onto the virtual client residing on the display device.

15. The system of claim 14 wherein the display host is further operable to perform operations including:

receiving a second message from the switchboard server system indicating that particular second content is to be played in the first session using a specified second media player;

retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

16. The system of claim 14 wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:

receiving a communication from the second display device;

opening a second session using a second instance of the swappable media player;

requesting from the switchboard server system assignment of a second unique identifier for the second session:

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session;

causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device.

receiving a second message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player;

retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

17. A machine-implemented method of presenting content on a display device, the method comprising:

receiving in a display host a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player, wherein the display host is operable to execute multiple instances of the swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

retrieving and loading the specified media player using the first instance of the swappable media player;

playing the particular content in a first session using the specified media player; and

causing a presentation of the content to be mirrored onto a virtual client residing on a display device associated with the first session.

18. The method of claim 17 including:

receiving in the display host a second message indicating that a specified second media player is to be used to play particular second content using the first instance of a swappable media player;

retrieving and loading the second media player using the first instance of the swappable media player;

playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

- 19. The method of claim 17 wherein the message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player includes a unique identifier for the first session.
- 20. The method of claim 19 wherein causing a presentation of the content to be mirrored onto the virtual client includes incorporating a watermark into the content before it is mirrored onto the virtual client, wherein the watermark includes the unique identifier.
- 21. The method of claim 20 wherein the watermark also includes another identifier that is uniquely associated with the virtual client.
- 22. A system for presenting content comprising:
 - a display device storing a virtual client;
- a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; and
 - a switchboard server system,
 - wherein the display host is operable to perform operations including:

receiving from the switchboard server system a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player;

retrieving and loading the specified media player from a content provider using the first instance of the swappable media player;

playing the particular content in a first session using the specified media player; and

causing a presentation of the content to be mirrored onto the virtual client residing on the display device.

- 23. The system of claim 22 wherein the message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player includes a unique identifier for the first session.
- 24. The system of claim 23 the display host is further operable to incorporate a watermark into the content before the content is mirrored onto the virtual client, wherein the watermark includes the unique identifier.
- 25. The system of claim 24 wherein the watermark also includes another identifier that is uniquely associated with the virtual client.

ABSTRACT OF THE DISCLOSURE

A system for presenting content includes a display device storing a virtual client. A display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content. The system also includes a switchboard server system. The display host is operable to perform operations including receiving from the switchboard server system a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player, retrieving and loading the specified media player from a content provider using the first instance of the swappable media player, playing the particular content in a first session using the specified media player, and causing a presentation of the content to be mirrored onto the virtual client residing on the display device.

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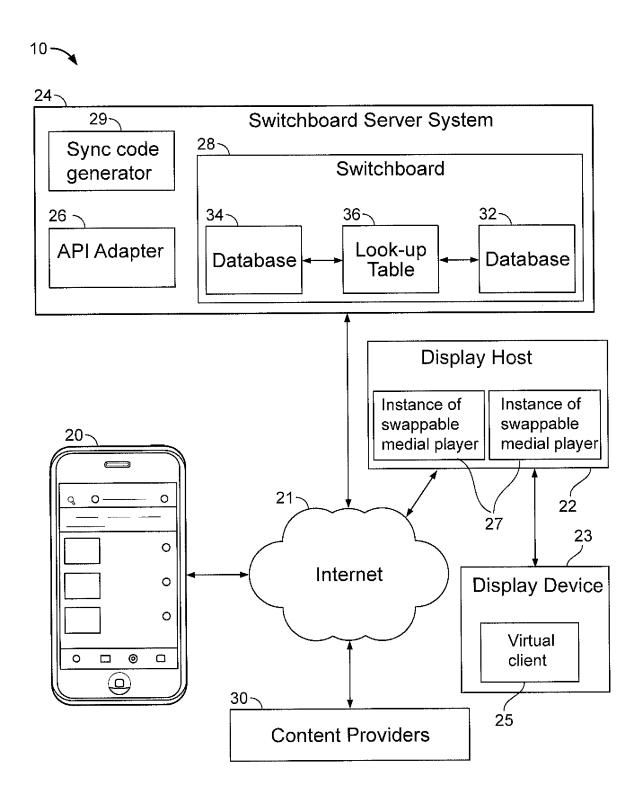
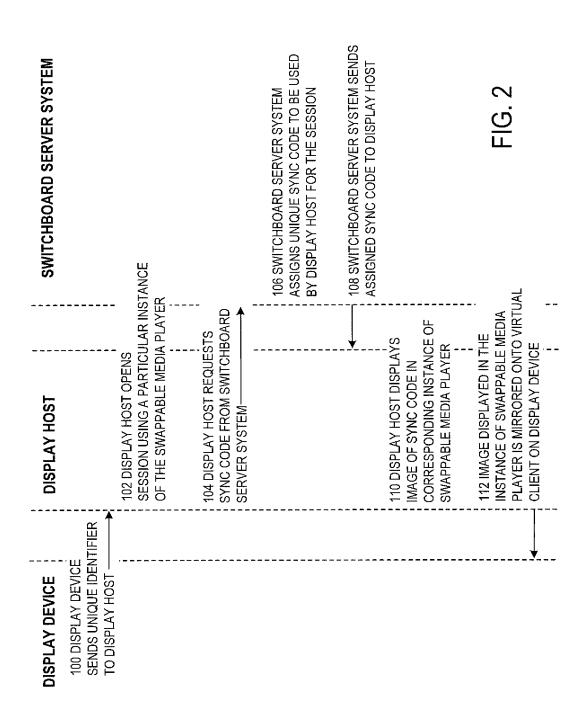
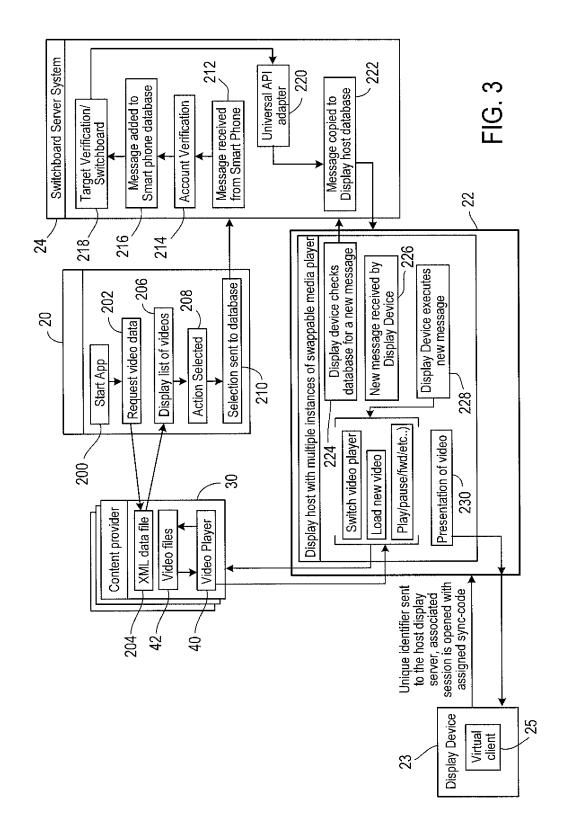
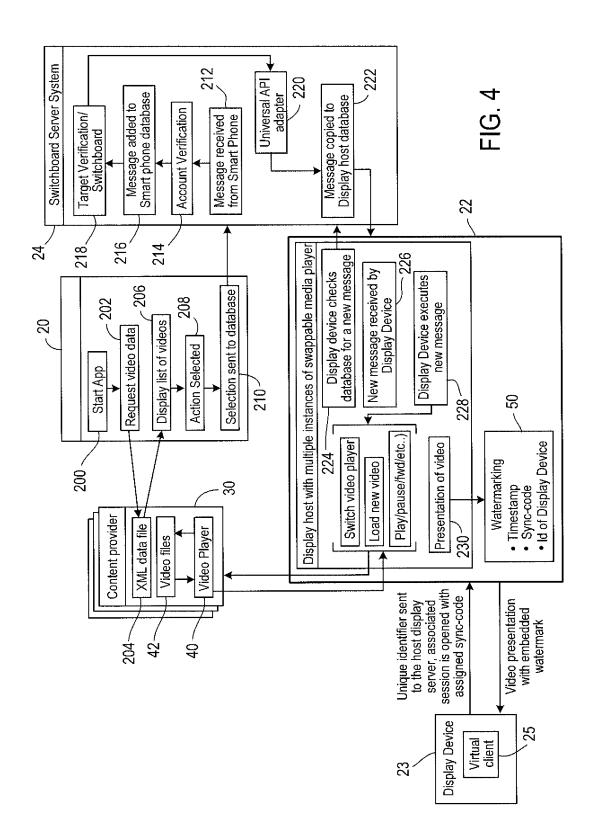


FIG. 1



Page 3 of 4
VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER
David Strober
30160-0005001





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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Strober

Art Unit :

Filed

: June 25, 2012

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Title

: VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A

SWAPPABLE MEDIA PLAYER

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

<u>INFORMATION DISCLOSURE STATEMENT</u>

Please consider the references listed on the enclosed PTO-1449 form.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 13/157,821, filed on June 10, 2011. All of the cited references were submitted to and/or cited by the Office in the prior application and, therefore, copies are not provided in this application.

This statement is being filed with the application. Please apply any necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: June 25, 2012

/Samuel Borodach/ Samuel Borodach

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No.	
	closure Statement oplicant	Applicant David Strober		
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	(37 CFR \$1.98(b))		June 25, 2012				

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	Substitute Disclosure Form (PTO-1449)

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	losure Statement plicant	Applicant David Strober			
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Examiner	Desig.	Document	Publication	Country or			Translation			
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Information Discl		Applicant David Strober			
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		lication Fee						
Application Number:								
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Title of Invention:	I .	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABL MEDIA PLAYER						
First Named Inventor/Applicant Name:	Da	vid Strober						
Filer:	Samuel Borodach/Kim McKasty							
Attorney Docket Number:	301	60-0005001						
Filed as Small Entity	•							
Utility under 35 USC 111(a) Filing Fees								
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Basic Filing:								
Utility filing Fee (Electronic filing)		4011	1	95	95			
Utility Search Fee		2111	1	310	310			
Utility Examination Fee		2311	1	125	125			
Pages:								
Claims:								
Claims in excess of 20		2202	5	30	150			
Independent claims in excess of 3		2201	1	125	125			

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Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	805

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EFS ID:	13100007							
Application Number:	13532546							
International Application Number:								
Confirmation Number:	9012							
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER							
First Named Inventor/Applicant Name:	David Strober							
Customer Number:	26211							
Filer:	Samuel Borodach/Brenda Jurgens							
Filer Authorized By:	Samuel Borodach							
Attorney Docket Number:	30160-0005001							
Receipt Date:	25-JUN-2012							
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Application Type:	Utility under 35 USC 111(a)							

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Submitted with Payment	yes
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1	Application Data Sheet ads.pdf		1031576	no	4		
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2	Transmittal of New Application	paptransmittal.pdf	89273	no	2		
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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.

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 1.7			ED 1 76	Attorney Docket Number			3016	0-00050	001				
Application D	ala Siic	eel 37 C	FR 1.70	Applic	Application Number								
Title of Invention	VIRTU	ALIZED H	OSTING A	ND DISPL	AYING O	F CC	ONTENT	USING	A SWA	PPAB	LE MED	ia playe	===== ∃R
The application data s bibliographic data arra This document may b document may be prir	inged in a fo	ormat speci ed electroni	fied by the l cally and si	United States ubmitted to t	s Patent ar	nd Tra	ademark O	ffice as	outlined	in 37 C	FR 1.76.		
Secrecy Orde													
Portions or all 37 CFR 5.2											•		ursuant to
Applicant Inf	<u>ormat</u>	ion:											
Applicant 1											Remo	ve	
Applicant Autho	rity 💿 ln	ventor (∫Legal R	epresentati	ve under	35 L	J.S.C. 11	7	○Part	y of Int	terest un	der 35 U.	S.C. 118
Prefix Given Na				Middle Na	ame			Fam	ily Nar	ne			Suffix
David								Strob	er				
Residence Infor	mation (Select O	ne) 💿 L	JS Residen	су 🔘	No	n US Re	sidency	' ()	Active	US Mili	tary Servi	ce
City Rye			Stat	e/Provinc	e NY		Countr	y of R	esiden	ice i	US		
Citizenship unde	r 37 CFF	R 1.41(b)	i US		•					•			
Mailing Address	of Appli	icant:	L										
Address 1	6	Davis Ave	enue										
Address 2	#	#B22											
City Rye						Stat	e/Provir	ıce	NY				
Postal Code	1	10580			Coun	tryi	US						
All Inventors Mu generated within						tion	blocks	may b	е		Add	i	
Corresponde	nce Ir	nforma	tion:										
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☐ An Address	is being	provide	d for the	correspo	ndence	Info	rmation	of thi	s appli	icatio	n.		
Customer Numb	er	26211											
Email Address		apsi@fr.	.com							Add Er	mail	Remov	/e Email
Application I	nform	ation:											
Title of the Inven	tion	VIRTUA PLAYE		STING AN	ID DISPL	AYIN	IG OF CO	ONTEN	TUSIN	G A SI	WAPPA	BLE MED	IA
Attorney Docket	ney Docket Number 30160-0005001					Small Entity Status Claimed							
Application Type	<u>;</u>	Nonprov	visional										
Subject Matter		Utility											
Suggested Class	(if any)					S	ub Clas	s (if ar	ıy)				
Suggested Tech	nology C	Center (if	any)										
Total Number of	Drawing	3 Sheets	(if anv)	4		s	uggeste	d Fia	ıre for	Publi	cation	(if any)	

PTO/SB/14 (11-08)
Approved for use through 09/30/2010. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Dat			Attorney		30160-0005	05001		
Application Data Sheet 37 CFR 1.76		Αŗ	Application Number					
Title of Invention	VIRTU	ALIZED HOSTING AN	D DI	SPLAYING OF CONTENT	USING A SW	APPABLE M	IEDIA PLAYER	
Publication Information:								
Request Early	Publica	ation (Fee required a	t tim	e of Request 37 CFR 1.2	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.								
Representativ	e Inf	ormation:						
this information in the Enter either Cust	Applicatiomer	tion Data Sheet does n Number or compl	ot co ete	practitioners having a ponstitute a power of attornethe Representative NRepresentative Information	y in the applic lame section	ation (see 3) on below.	7 CFR 1.32).	
Please Select One:	(Customer Number	r	US Patent Practitione	er 🔵 Li	mited Recog	nition (37 CFR 11.9)	
Customer Number		26211						
entry from a PCT app	r the application.	olicant to either claim b Providing this informat	enef	formation: it under 35 U.S.C. 119(e), 1 n the application data sheet 1.78(a)(4), and need not ott	constitutes the	ne specific re	eference required by	
Prior Application	Status	Pending				R	emove	
Application Num	nber	Continuity ¹	Тур	Prior Applicat	ion Number	Filing D	Pate (YYYY-MM-DD)	
		Continuation in part	of	13157821		2011-06-1	0	
Prior Application	Status	Expired				R	emove	
Application Num	nber	Continuity ¹	Туре	Prior Applicat	ion Number	Filing D	Pate (YYYY-MM-DD)	
13157821		non provisional of		61477998		2011-04-2	1	
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Foreign Priori	ty Inf	ormation:						
				reign priority and to identify data sheet constitutes the c		ty as require	d by 35 U.S.C. 119(b)	
Application Num	nher	Country	, i	Parent Filing D	late (VVVV		Priority Claimed	
Application Nutr	INGI	Country	у '	raieill Filling L	vale (1111-	(טט-ווייוי	Yes No	
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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 Da	eta Shoot 37 CED 1 76	Attorney Docket Number	30160-0005001				
Application Data Sheet 37 CFR 1.76		Application Number					
Title of Invention	VIRTUALIZED HOSTING ANI	OSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER					

Assignee Information:

Providing this information of the CFR to have an as	• • •	sheet does not substitute for compliance v e Office.	vith any requirement of part 3 of Title 37
Assignee 1			Remove
If the Assignee is an O	rganization check her	re. 🗙	
Organization Name	Touchstream Technol	ogies, Inc.	
Mailing Address Info	rmation:		
Address 1	8 Broadway		
Address 2			
City	Valhalla	State/Province	NY
Country i US		Postal Code	10595
Phone Number		Fax Number	
Email Address		·	•
Additional Assignee D button.	ata may be generated	d within this form by selecting the Ad	dd 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	/Samuel Borodach/		Date (YYYY-MM-DD)	2012-06-25						
First Name	Samuel	Last Name	Borodach	Registration Number	38388					

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

Privacy Act Statement

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

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

- 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.
- 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.
- 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.
- 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.



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

FILING RECEIPT

APPLICATION FILING or GRP ART FIL FEE REC'D TOT CLAIMS NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO IND CLAIMS 13/532,546 06/25/2012 2447 30160-0005001 4

CONFIRMATION NO. 9012

26211 FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022

Date Mailed: 07/12/2012

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 Strober, Rye, NY;

Assignment For Published Patent Application

TOUCHSTREAM TECHNOLOGIES, INC., Valhalla, NY

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/157,821 06/10/2011 which claims benefit of 61/477,998 04/21/2011

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: 07/06/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/532,546**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

page 1 of 3

Title

VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

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.

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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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).

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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, facilitate, and accelerate 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 <u>SelectUSA.gov</u>.

	PATE	ENT APPLI		ON FEE DE		TIC	ON RECOR	D		tion or Docket Num 2,546	ber
	APPI	LICATION A			umn 2)		SMALL	ENTITY	OR	OTHEF SMALL	
(Column 1) (Column 2) 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	95	1	N/A				
	RCH FEE FR 1.16(k), (i), or (m))	N	/ A	1	I/A		N/A	310		N/A	
	MINATION FEE FR 1.16(o), (p), or (q))	N	/ A	١	I/A		N/A	125	1	N/A	
	AL CLAIMS FR 1.16(i))	25	minus	20= *	5		x 30 =	150	OR		
	EPENDENT CLAIN FR 1.16(h))	^{/S} 4	minus	3 = *	1		× 125 =	125			
FEE	PLICATION SIZE E CFR 1.16(s))	\$310 (\$15 50 sheets	oaper, th 5 for sma or fraction	and drawings e e application si all entity) for ea on thereof. See CFR 1.16(s).	ze fee due is ch additional			0.00			
MUL	TIPLE DEPE N DE	NT CLAIM PRE	SENT (3	7 CFR 1.16(j))				0.00			
* If ti	ne difference in co	lumn 1 is less th	an zero,	enter "0" in colur	mn 2.	٠.	TOTAL	805	1	TOTAL	
	APPLIC	(Column 1)	AMENL	ED - PART I	(Column 3)		SMALL	ENTITY	OR	OTHEF SMALL	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
ME	Total (37 CFR 1.16(i))	*	Minus	**	=		x =		OR	x =	
END	Independent (37 CFR 1.16(h))	*	Minus	***	=		x =		OR	x =	
AM	Application Size Fe	e (37 CFR 1.16(s))			•						
	FIRST PRESENTA	TION OF MULTIPI	E DEPEN	DENT CLAIM (37 (CFR 1.16(j))				OR		
							TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
		(Column 1)		(Column 2)	(Column 3)				,		
AT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
DMENT	Total (37 CFR 1.16(i))	*	Minus	**	=		x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x =		OR	x =	
AMEN	Application Size Fe	e (37 CFR 1.16(s))							1		
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE 30160-0005001

13/532,546

06/25/2012

David Strober

CONFIRMATION NO. 9012

FORMALITIES LETTER

26211 FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022



Date Mailed: 07/12/2012

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 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 application is informal since it does not comply with the regulations for the reason(s) indicated below.

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

 A replacement abstract not exceeding 150 words in length and commencing on a separate sheet in compliance with 37 CFR 1.72(b) and 37 CFR 1.121 is required.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

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 \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within TWO MONTHS from the date of this Notice is \$65 for a small entity \$65 Surcharge.

page 1 of 2

Replies should be mailed to:

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

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

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

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

To: PATDOCTC@fr.com,,

From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 26211

Jul 12, 2012 05:27:50 AM

Dear PAIR Customer:

FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 26211, have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application Document Mailroom Date Attorney Docket No. 13532546 APP.FILE.REC 07/12/2012 30160-0005001 NTC.MISS.PRT 07/12/2012 30160-0005001

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Attorney's Docket No.: 30160-0005001

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER</u>, the application of which:

[] is attached [X] was filed o	hereto. n <u>June 25, 2012</u> as Ap	olication Kavial No.	13/530 586		
	ned and claimed in PCT Internat				1
	and as amended un				
I hemeraline whaten the	at I have reviewed and understar	ed the contonix of the sk	www.identifier	i spediostic	nn.
	mended by any amendment refe		n's criterates ter	e approvin	,
to me to be material to pa material information whic	ne duty to disclose to the United tentability as defined in 37 CFR the became available between the fine continuation-in-part application.	1.56, including for confiling date of the prior	tinuation-in-p	art applica	tions,
I hereby claim the application(s) listed below	e benefit under Title 35, United	States Code, §119(e)(1) of any Unite	xd States pi	rovisional
U.S. Seria	l No. Filin	g Date	Stat	ais	
61/477,998	April 21, 201		***************************************		
acknowledge the duty to of Federal Regulations, §	in the manner provided by the fi liselese all information I know t I.56(a) which became available anal filing date of this applicatio	o be material to patenta between the filing date	bility as defin	ed in Title	37, Code
U.S. Seria		g Date	Stat	us	
13/157,821	June 10, 2011		ading		
application(s) for patent of country other than the Un for patent or inventor's ce	reign priority benefits under Tit r inventor's certificate or of any ited States of America listed bel rtificate or any PCT internation America filed by me on the sam- icrity is claimed:	PCT international applow and have also idential application(s) designs	ication(s) desi fied below an ating at least o	ignating at y foreign s me country	application / other
Country	Application No.	Filing Date		·~~	Claimed
			•	[] Yes	() No
			:	[] Yes	[] No
Thankhy annaint	none manification has been decor	soted with PTO Custon	mar Nomber	26211 to r	meente

Direct all telephone calls to SAMUEL BORODACH at telephone number (212) 765-5070.

this application and to transact all business in the Patent and Trademark Office connected therewith.

Attorney's Docket No.: 30160-0005001

Combined Declaration and Power of Attorney

Page 2 of Pages

Direct all correspondence to the following:

26211 PTO Customer Number

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

Fall Name of Inventor:

DAVID STROBER

Inventor's Signature: Residence Address:

ures: Rye, U.S.

Citizenship: Post Office Address:

6 Davis Avenue B22

Rye, NY 10580

30703641.doc

ABSTRACT OF THE DISCLOSURE

A system for presenting content includes a display device storing a virtual client. A display host is operable to execute multiple instances of a browser each of which operates as a swappable media player that is operable to retrieve and load any of a plurality of different media players needed to play specified content. The display host is operable to perform operations including receiving from a switchboard server system a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player, retrieving and loading the specified media player from a content provider using the first instance of the swappable media player, playing the particular content in a first session using the specified media player, and causing a presentation of the content to be mirrored onto the virtual client residing on the display device.

30723367.doc

Electronic Patent Application Fee Transmittal									
Application Number: 13532546									
Filing Date:	25-	25-Jun-2012							
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLI MEDIA PLAYER								
First Named Inventor/Applicant Name:	Da	vid Strober							
Filer:	Saı	muel Borodach/Pau	la Romeo						
Attorney Docket Number:	30	160-0005001							
Filed as Small Entity									
Utility under 35 USC 111(a) Filing Fees									
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Basic Filing:									
Pages:									
Claims:									
Miscellaneous-Filing:									
Late filing fee for oath or declaration		2051	1	65	65				
Petition:									
Patent-Appeals-and-Interference:									
Post-Allowance-and-Post-Issuance:									
Extension-of-Time:									

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Extension - 1 month with \$0 paid	2251	1	75	75			
Miscellaneous:							
Total in USD (\$)							

Electronic Acl	knowledgement Receipt
EFS ID:	13974215
Application Number:	13532546
International Application Number:	
Confirmation Number:	9012
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER
First Named Inventor/Applicant Name:	David Strober
Customer Number:	26211
Filer:	Samuel Borodach/Paula Romeo
Filer Authorized By:	Samuel Borodach
Attorney Docket Number:	30160-0005001
Receipt Date:	12-OCT-2012
Filing Date:	25-JUN-2012
Time Stamp:	15:29:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$140
RAM confirmation Number	2126
Deposit Account	061050
Authorized User	

File Listing:

Document	Document Description	File Name	File Size(Bytes)/	Multi	Pages	l
Number	Document Description	File Name	Message Digest	Part /.zip	(if appl.)	l

1	Extension of Time 301600005001 extension.p		324553	no	1					
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Warnings:										
Information:										
2		301600005001 responsemissing	1697635	yes	5					
		parts.pdf	6d946a1f526455451652e4356aba923a127 74c0a	,,,,						
	Multipart Description/PDF files in .zip description									
	Document De	escription	Start	Er	nd					
	Applicant Response to Pre-E	1	2							
	Oath or Declara	ation filed	3	,	4					
	Abstrac	ct	5	:	5					
Warnings:										
Information:										
3	Fee Worksheet (SB06)	fee-info.pdf	32503	no	2					
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Warnings:		•								
Information:										
		Total Files Size (in bytes)	20	54691						
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Strober

Art Unit :

Serial No.: 13/532,546

Examiner:

Filed : June 25, 2012

Conf. No.: 9012

Title

: VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

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

PETITION FOR ONE-MONTH EXTENSION OF TIME UNDER 37 C.F.R. \$1.136

Please extend the period for response to the action dated July 12, 2012, for one month to and including October 12, 2012.

The fees in the amount of \$75 are being paid concurrently herewith. In addition, please apply any other necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: October 12, 2012

/Samuel Borodach/

Samuel Borodach Reg. No. 38,388

Customer Number 26211 Fish & Richardson P.C.

Telephone: (212) 765-5070

Facsimile: (877) 769-7945

30723370.doc

Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Strober Art Unit: Serial No.: 13/532,546 Examiner:

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A

SWAPPABLE MEDIA PLAYER

MAIL STOP MISSING PARTS

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

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

In response to the Notice to File Missing Parts of Application under 37 CFR §1.53(b) mailed July 12, 2012 (copy enclosed), applicant claims small entity status (see 37 CFR §1.27) and submits herewith the following:

- Payment of the surcharge of \$65 for late filing of the basic filing fee and/or declaration;
- A Combined Declaration and Power of Attorney in compliance with 37 CFR §1.63; and
- ★ A replacement abstract of no more than 150 words.

The fees in the amount of \$65 are being paid concurrently herewith. In addition, please apply any other necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number. It is understood that this perfects the application and no additional papers or filing fees are required.

Applicant: David Strober Serial No.: 13/532,546

Filed : June 25, 2012 Page : 2 of 2

Attorney's Docket No.: 30160-0005001

Respectfully submitted,

/Samuel Borodach/ Date: October 12, 2012

Samuel Borodach Reg. No. 38,388

Customer Number 26211 Fish & Richardson P.C.

Telephone: (212) 765-5070 Facsimile: (877) 769-7945

30723350.doc

	PATE	ENT APPLI		ON FEE DE		TIC	ON RECO	RD		Applica 13/53	tion or Docket Num 2,546	ber
	APPI	LICATION A			lumn 2)		SMAL	LΕ	NTITY	OR	OTHEF SMALL	
(Column 1) (Column 2) 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		98		N/A					
	RCH FEE FR 1.16(k), (i), or (m))	N	/ A	١	V/A		N/A		310		N/A	
	MINATION FEE FR 1.16(o), (p), or (q))	N	/ A	١	V/A		N/A		125		N/A	
	AL CLAIMS FR 1.16(i))	25	minus	20= *	5		× 31	=	155	OR		
	EPENDENT CLAIN FR 1.16(h))	^{1S} 4	minus	3 = *	1		× 125	-	125			
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).				ze fee due is ich additional				0.00				
MUL	TIPLE DEPENDE	NT CLAIM PRE	SENT (3	7 CFR 1.16(j))					0.00			
* If t	ne difference in co	lumn 1 is less th	an zero,	enter "0" in colur	mn 2.		TOTAL	1	813		TOTAL	
	APPLIC	(Column 1)	AMENL	ED - PART I	(Column 3)		SMAL	L E	NTITY	OR	OTHEF SMALL	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)		ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
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END	Independent (37 CFR 1.16(h))	*	Minus	***	=		x :	=		OR	x =	
AM	Application Size Fe	e (37 CFR 1.16(s))			•	ן ו						
	FIRST PRESENTA	TION OF MULTIPE	E DEPEN	DENT CLAIM (37 (CFR 1.16(j))					OR		
							TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE	
		(Column 1) CLAIMS	Ι	(Column 2) HIGHEST	(Column 3)	1 F		_		1		
NT B		REMAINING AFTER AMENDMENT		NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)		ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
DMENT	Total (37 CFR 1.16(i))	*	Minus	**	=] [X	=		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	[X :	=		OR	x =	
AMEN	Application Size Fe	e (37 CFR 1.16(s))				<u>ן</u>						
	FIRST PRESENTA	TION OF MULTIPI	E DEPEN	DENT CLAIM (37 (CFR 1.16(j))					OR		
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION FILING or GRP ART FIL FEE REC'D TOT CLAIMS IND CLAIMS NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 13/532,546 06/25/2012 2447 30160-0005001 870

26211 FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022

CONFIRMATION NO. 9012 UPDATED FILING RECEIPT



Date Mailed: 10/23/2012

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

Inventor(s)

David Strober, Rye, NY;

Applicant(s)

David Strober, Rye, NY;

Assignment For Published Patent Application

TOUCHSTREAM TECHNOLOGIES, INC., Valhalla, NY

Power of Attorney: The patent practitioners associated with Customer Number 26211

Domestic Priority data as claimed by applicant

This application is a CIP of 13/157,821 06/10/2011 which claims benefit of 61/477,998 04/21/2011

Foreign Applications (You may be eliqible 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: 07/06/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/532,546

Projected Publication Date: 01/31/2013

Non-Publication Request: No Early Publication Request: No

** SMALL ENTITY **

page 1 of 3

Title

VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

Preliminary Class

709

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

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

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

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page 2 of 3

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To: PATDOCTC@fr.com,,

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Subject: Private PAIR Correspondence Notification for Customer Number 26211

Oct 23, 2012 05:22:56 AM

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Application Document Mailroom Date Attorney Docket No. 13532546 APP.FILE.REC 10/23/2012 30160-0005001

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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.usplo.gov

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

13/532,546

06/25/2012

David Strober

30160-0005001 **CONFIRMATION NO. 9012**

PUBLICATION NOTICE

26211 FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022



Title: VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

Publication No.US-2013-0031478-A1

Publication Date:01/31/2013

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

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

To: PATDOCTC@fr.com,,

From: PAIR_eOfficeAction@uspto.gov Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 26211

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Application Document Mailroom Date Attorney Docket No. 13532546 NTC.PUB 01/31/2013 30160-0005001

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Monday - Friday 6:00 a.m. to 12:00 a.m.

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Sheet	1	٦f	1
SHEEL	- 1	of	

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR \$1.98(b))		Applicant David Strober		
		Filing Date June 25, 2012	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	US 2010/0027974 A1	2010-02-04	Ansari			
	2	US 2005/0034151 A1	2005-02-10	Abramson			
	3	US 2007/0288715 A1	2007-12-13	Boswell et al.			
	4	US 2008/0077526 A1	2008-03-27	Arumugam			

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Examiner	Desig.	Document	Publication	Country or			Trans	slation
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No

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next confindincation to applicant.	next confindincation to applicant.

Electronic Acknowledgement Receipt				
EFS ID:	15739126			
Application Number:	13532546			
International Application Number:				
Confirmation Number:	9012			
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER			
First Named Inventor/Applicant Name:	David Strober			
Customer Number:	26211			
Filer:	Samuel Borodach/Maryann White			
Filer Authorized By:	Samuel Borodach			
Attorney Docket Number:	30160-0005001			
Receipt Date:	09-MAY-2013			
Filing Date:	25-JUN-2012			
Time Stamp:	18:36:43			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

Submitted wi	th Payment	no			
File Listin	g:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		30160-0005001IDS.pdf	147673	yes	2
'		30,00 000300 HB3.pul	8b0fbbcd0fb29a9f22fa085fb047802ef9211 43b	1 1	_

	Multipart Description/PDF files in .zip description						
	Document Description	Start	End				
	Transmittal Letter	1	1				
	Information Disclosure Statement (IDS) Form (SB08)	2	2				
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Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Strober Art Unit: Serial No.: 13/532,546 Examiner:

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A

SWAPPABLE MEDIA PLAYER

MAIL STOP AMENDMENT

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

INFORMATION DISCLOSURE STATEMENT

Please consider the references listed on the enclosed PTO-1449 form. Copies of the listed U.S. patents and patent application publications will be provided on request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: May 9, 2013 /Samuel Borodach/

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Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546	
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	U.S. Patent Documents								
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate		
···········	1	2009/0172780	Jul 2, 2009	Sukeda et al.	2.300	2 3 3 3 1 4 0 0			
	-	2009/01/2/00	3412, 2009	Sanca et al.					
	2	2012/0059875	Mar 8, 2012	Clark					
	3	2011/0131607	Jun 2, 2011	Thomas et al.					
	4	2009/0108057	Apr 30, 2009	Mu et al.					

Foreign Patent Documents or Published Foreign Patent Applications								
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	5	2175607 A1	Apr 14, 2010	Europe				

Other Documents (include Author, Title, Date, and Place of Publication)					
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(54) Method for establishing a thin client session

(57) The invention concerns a method for establishing a Thin Client session between a Thin Client device (2) and a Thin Client Server (4) exchanging Handshaking and initialization messages during a session negotiation above a SIP-based framework, wherein said Thin Client

device (2) and said Thin Client Server (4) exchange additional information representative of the Thin Client context (30,32) enabling the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session.

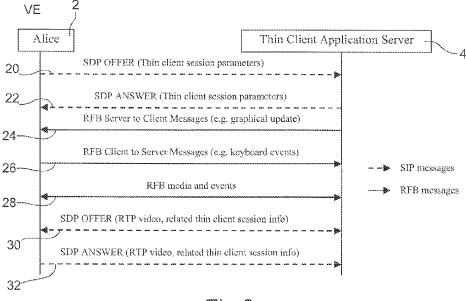


Fig 3

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TECHNICAL DOMAIN

[0001] The invention pertains to telecommunication field and relates to a new session description to initiate a thin client system working above a SIP-based framework such as IMS.

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[0002] More specifically, the invention concerns a method for improving the establishment of a Thin Client connection between a thin client device and a thin client server exchanging handshaking and initialization messages during a session negotiation above a Session Initiation Protocol (SIP)-based framework.

[0003] The invention concerns also a thin client device and thin client server adapted for implementing said method.

STATE OF PRIOR ART

[0004] The Session Description Protocol (SDP) [IETF RFC4566] is intended for describing multimedia sessions for the purposes of session announcement, session invitation, and other forms of multimedia session initiation. SDP is most commonly used for describing media streams that are transported over the Real-Time Transport Protocol (RTP) [IETF RFC3550], using the profiles for audio and video media defined in RTP Profile for Audio and Video Conferences with Minimal Control [IETF RFC3551], Besides the MIME Type registration of RTP Payload Formats [IETF RFC3555] defines the RTP payload format for Audio and Video Conferences as MIME subtypes.

[0005] However, SDP can be used to describe other media profile than Audio and Video that can be transported over Real-time Transport Protocol (RTP). SDP is commonly carried in Session Initiation Protocol (SIP) [IETF RFC3261] messages in order to agree on a common media description among the endpoints. An Offer/ Answer Model with Session Description Protocol (SDP) [IETF RFC3264] defines a framework by which two endpoints can exchange SDP media descriptions and come to an agreement as to which media streams should be used, along with the media related parameters.

[0006] In the typical case of a thin client session, it might be desirable to configure and establish media streams for remote desktop/application display as well as for control events over a packet or circuit switched bearer connection. Such session is usually achieved using thin client protocols such as Virtual Network Computing (VNC) based upon Remote Frame Buffer (RFB) Protocol or Remote Desktop Protocol (RDP), but also Independent Computing Architecture protocol (ICA), X11 protocol. Besides, pixels could even be streamed using Real-time Transport Protocol (RTP) and as such graphics primitives would be carried in RTP packets.

[0007] In the context of mobility, next generation network, and rich media application, it is important to note

that Quality of Service (QoS), adaptivity, and authentication are key points and inspecting the media format is important as well for the resource reservation process and for the operator to control the radio bearer traffic as well as the IP flows (e.g. to apply appropriate resource allocation based on a given policy, user subscription, or service profile). Besides IP Multimedia Subsystem (IMS) - based on SIP and providing an overlay network above a core network - as defined by the Third Generation Partnership Project [3GPP TS 23.228] is also capable to interconnect with a Policy and Charging Control Architecture [3GPP TS 23.203] including the ability to authorize QoS resources.

[0008] Since applications range from simple text and/or graphic based application to audio and/or video based application that can suffer from network delays and high gigue ratio, a way to adapt to different types of traffic within a remote desktop control session is required. [0009] From a Service aspect it is foreseen to combine a remote desktop access with other services such as phone call establishment or push-to-x services. By using SIP it becomes possible to extend traditional remote desktop control use cases.

[0010] From a QoS aspect it is also desirable to enable QoS control over the thin client media description. For instance Graphics and Events type of media can be allocated a predefined QoS profile, they could even be streamed over a packet or circuit switched bearer connection. Besides when a thin client device is moving, the access network environment may change so it might be desirable to re-allocate the appropriate quality settings (resource allocation, renegotiation of media parameters such as codecs, transport protocol, etc...).

[0011] From an authentication perspective, however, the well known thin client protocols use their own set of rules and mechanisms (i.e. a built-in negotiation) to authenticate and establish a connection between a thin client device and a thin client server.

[0012] The techniques of the prior art do not provide means to mix and adapt multimedia transfers such as audio/video with/to remote desktop control capabilities above a SIP framework.

[0013] The invention aims at adding remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, ...) pertaining to a session of remote desktop control.

PRESENTATION OF THE INVENTION

[0014] The object of the invention is achieved by a method for establishing a thin client connection between a thin client device and a thin client server exchanging handshaking and initialization messages during a Session negotiation above a Session Initiation Protocol (SIP)-based framework.

[0015] According to the invention, said Thin Client device and said Thin Client Server exchange additional in-

formation representative of the Thin Client context to enable the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session.

[0016] The additional information allows both multimedia transfers and remote desktop control capabilities and may consists of Thin Client information formatted in SDP (Session Description Protocol) offer/answer messages or XML-based offer/answer messages embedded in the body of SIP messages.

[0017] The remote desktop control capabilities comprise the function consisting of dynamically directing or redirecting graphical updates of at least one remote application from a first device onto a second device.

[0018] Said first device may be a mobile communication device and said second device may be a fixed communication device.

[0019] According to another aspect of the invention, said remote desktop control capabilities further comprise the function consisting of transferring uplink events, eventually on a separate radio bearer and/or separate IP connection than the one used for the downlink graphical updates. The radio bearer is a Layer 2 service used to transfer user data between User Equipment and radio access network as per 3GPP definition. A separate IP connection can be achieved by allocating different port number or through IP tunneling mechanisms without or with encryption (i.e. IPSec).

[0020] The remote desktop control capabilities further comprise function consisting of associating at least one audio/video stream to a session of remote desktop control (i.e. a thin client session).

[0021] In one embodiment of the invention, said additional information comprises remote display framebuffer coordinates and size corresponding to said audio/video streams associated to said thin client session. Said framebuffer coordinates and size enable to appropriately position the video rendering above the remote desktop display on the local screen of the device.

[0022] Moreover, said additional information allow sending a client request (FramebufferForgetRequest) instructing the server that a specific area on the framebuffer does not require update.

[0023] In another embodiment of the invention said additional information comprise window-id attribute and allow sending a client request (WindowUpdate) instructing a server that a graphical area identified by said window-id attribute has been resized, moved or both.

[0024] Thanks to the method according to the invention, it is possible to:

- allow the combination of services
- enable control of the display redirection of a remote application from a mobile device,
- enable Quality of Service as well as accurate session
- enable the use a uniform negotiation to avoid a wide range of specific thin client authentication and media

negotiation mechanisms.

[0025] Thanks to the invention, the negotiation steps of known protocols such as RFB or ITU T.120 (Data Protocol for multimedia conferencing) are partially or totally replaced by the SDP-based negotiation and new information is provided to allow mixing media traffic for a remote display connection. Negotiating such a thin client connection using the SDP and SIP framework provides flexibility in that the signaling and the control of the thin client session is distinguished from the screen update strategy applied by the previously cited well known thin client protocols. Advantageously the thin client session can benefits from session redirection feature and other well known SIP and SDP extensions.

[0026] In addition the thin client connection could be accurately tracked and controlled within the IP Multimedia Subsystem [3GPP TS 23.228] that is standardized by the Third Generation Partnership Project.

[0027] In some typical use cases, it might be desirable to send the uplinks user events such as the well known key and mouse events in another radio bearer and/or IP connection than the one in which are sent the graphical updates. By doing so Quality of Service can be applied and a strategy can be made as to regulate the responsiveness of the system, for instance by guaranteeing very high priority to the events bearer. Furthermore, in a mobility context, a mobile device might move from a wireless network area where a high bandwidth packet-switched bearer is available to another area where a Wireless Local Area Network (WLAN) connection with lower bandwidth is available. Therefore, the graphics media may suffer from delay and bandwidth variations. It is therefore desirable to renegotiate the session parameters and this can be done by using SIP and SDP offer/answer model and IMS mobility management procedures.

[0028] By using the proposed invention, it is possible to establish an uplink bearer to send user events and a downlink bearer to receive graphical updates. At the Thin Client device it is also possible to define alternative transport protocol to prepare the viewer to adapt to the viewer transmission mode (e.g. To switch from RFB/VNC over TCP protocol to RTP protocol) to enable some portion of screen display where a film is played and to be streamed using RTP while the background is just periodically updated using the RFB protocol. If a viewer does not support an alternative mechanism, it will just not be accepted during the negotiation phase.

[0029] The method according to the invention can be implemented with any other SIP and SDP extensions (RFC3108, RFC4975, draft-garcia-mmusic-sdp-cs-01,) without departing from the scope of present invention. The method according to the invention is implemented by a thin client device and a thin client server comprising means for exchanging with said thin client server additional information representative of the Thin Client context to enable the combination and adaptive transfer of multiple media streams in at least one remote application.

display during said thin client session, said additional information consisting of SDP (Session Description Protocol) offer/answer messages Or XML-based offer/answer messages embedded in the body of SIP messages.

[0030] Said thin client device may be a Mobile User Equipment comprising an interface to enable a user to register interest in media redirection in order to get notified upon reception of said media redirection, and to send a redirection answer.

[0031] Moreover, said Mobile User Equipment is adapted for establishing a separate IP connection for uplink events for triggering the allocation of separate radio bearer for transferring said uplink events on a separate radio bearer than the one used for downlink graphical updates, and for mapping the rendering of audio/video stream(s) to said remote display framebuffer on its screen. Said Mobile User Equipment comprises an interface to enable a user to register interest in media redirection in order to get notified upon reception of said media redirection, and to send a redirection answer.

[0032] The invention also concerns a Thin Client Server adapted for implementing the method according to the invention for establishing a Thin Client session with a Thin Client device, said Thin Client Server comprises means for exchanging with said Thin Client device additional information representative of the Thin Client context to enable the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session.

[0033] The invention allows an extension of the media 30 types defined in ongoing work [draft-garcia-mmusic-sdp-collaboration-00] and defines new thin client media types and attributes.

[0034] To do so, the invention proposes to define the Control-Event media type. The existing "Control" media type is used to specify an additional conference control channel for the session. We need to use a different media type to precise a control channel for user events such as pointer or key events.

[0035] Finally the invention provides a way to mix multimedia streams with Thin Client remote display streams. The "Grouping of Media Lines in SDP" [IETF RFC3388] provides means to group media streams to express how different media streams within a session relate to each other, more particularly for the purpose of Lip synchronization or Flow identification. It should be noted that the grouping mechanisms depends on the semantic of the "a=group" session-level attribute. So we provide a new semantic for the thin client ("TC") context.

[0036] The implementation will be illustrated based on RFB protocol.

BRIEF DESCRIPTION OF THE FIGURES

[0037] The forgoing summary, as well as the following detailed description, will be better understood when read in conjunction with the appended figures illustrating an exemplary embodiment of the invention in which:

- Figure 1 schematically illustrates an IMS-based architecture:
- Figure 2 illustrates a thin client viewer showing a remote desktop consisting of several areas that can dynamically be adapted;
- Figure 3 illustrates a flow chart describing the steps of the method according to the invention
- Figure 4 schematically illustrates a an example of application display redirection according to the invention;

DESCRIPTION OF A DETAILED EMBODIMENT OF THE INVENTION

[0038] The invention will be described by reference to figure 1 illustrating an IMS architectural framework defined by the third generation partnership project [3GPP TS 23.228] for delivering IP multimedia services to a mobile device. The architecture comprises mobile user equipment 2 acting as a thin client device, a thin client server 4, a IMS Core System 6, a Policy Decision Function module 8 (PDF), a 3GPP Packet Switch (PS) Core Network 10. The IMS Core System 6 mainly comprises a Call Session Control Functions (CSCF) including Proxy-CSCF (P-CSCF), Serving-CSCF (S-CSCF), and Interrogating-CSCF (I-CSCF). The CSCF provides session control for subscribers accessing services within the IM (IP Multimedia) Core System 6. In essence the CSCF is a SIP Server. It has responsibility for interacting with network databases such as the HSS for mobility and AAA (Access, Authorization and Accounting) Servers for security. These modules are required to process SIP signalling packets in the IMS.

[0039] IMS Application Servers execute services and interface with S-SCSF. Some interfaces are illustrated in figure 1, as defined in [3GPP 23.228]:

The ISC interface is used to exchange messages between CSCF and thin client server 4.

The Gm interface is used to exchange SIP-based information between UE 2 and CSCF.

The GQ interface is used to exchange information policy decision information between CSCF and Policy Decision Function (PDF).

The interface Cx is intended for the communication between CSCF and Home Subscription Server (HSS) and the interface Dx for finding the correct HSS in multi-HSS environment.

The interface Sh used by the thin client Server 4 for communicating information with the HSS or with SIP/OSA Service Capability Server (OSA/SCS).

The interface Go used to control and authorize the Quality of Service and exchange correlation information between IMS and the 3GPP Policy and Charging Control (PCC) Architecture [3GPP TS 23 202]

The interface Ut used for controlling the Application Server and is based on HTTP protocol.

30

[0040] When using the IMS SIP signaling protocol the Thin Client UE 2 can connect to the IMS Thin Client Application Server (TCAS) 4 as depicted in figure 1 by establishing a SIP session. During this process, the Thin Client UE 2 and the TCAS 4 can negotiate the QoS and media parameters. The UE 2 may also perform some configurations on this TCAS 4 through the Ut interface, for instance to configure the desktop environment. The pixels generated by the application are streamed to the UE 2 in an end-to-end manner via Ut* interface and video or audio media can be streamed to the UE 2 too.

[9041] The method according to the invention extends SDP to describe the thin client session, the associated media, and the remote control events. An alternative would be to provide said description using XML syntax as defined by the W3C Extensible Markup Language (XML) 1.0 (Fourth Edition).

[0042] More particularly, the method allows the association of at least one audio/video stream to a thin client connection negotiated using SIP signaling in such a way that audio and/or video IP flows can be added dynamically and adaptively to a SIP session of remote desktop control whose associated IP flows can be rendered through thin client protocol mechanisms like RFB.

[0043] The following description provides the syntax 25 and semantics of the extensions required for providing a description of a Thin Client session in SDP.

[0044] According to SDP [IETF RFC4566], the connection data line in SDP has the following syntax:

c = <nettype> <addrtype> <connection-address>

[0045] Where <nettype> indicates the network type, <addrtype> indicates the address type, and the <connection-address> is the connection address, which is dependent on the address type.

[0046] Basically the SDP announcement consists of a session-level section followed by one or more media-level sections as described in SDP [IETF RFC2327]. Session-level information provides the default values so if the connection data line is present at the session-level it applies to the media-level section unless the connection data line is conveyed in a media description. Note that if the connection data line is present in all media, it is not required at the session level.

[0047] The media description starts with an "m=" line and continues to the next media description or end of the whole session description. The "m=" media line as defined in IETF RFC4566 is as follows

m=<media><port><transport><fmt list>

[0048] Where the <media> is the media type, <port> is transport port to which the media stream will be sent, <transport> is the transport protocol whose value is dependent on the "c=" fields, and <first list> represents media formats. For audio and video the media formats are normally media payload type as defined in the RTP Au-

dio/Video Profile.

[0049] At the moment the media types are defined for audio, video, application, data and control.

[0050] Thin client media types.

[0051] We initially consider the Remote Frame Buffer (RFB) protocol that can be used to control the display updates and for which various encoding are available.

[0052] The media type can be specific to the thin client technology. The media types can be "application/rfb", "application/T120".

m=application <port> <transport> RFB.

[0053] We further focus on the Remote Frame Buffer protocol in this document.

[0054] Thin client control event media types.

[0055] In addition to the graphical updates of the remote display, it is also possible to establish a specific connection for uplink events. For this purpose, the media type "application/control-events" is defined and the media line is:

m = application <port> <transport> control-events. RFB specific attributes.

[0056] The attribute version "v=" must be given and it refers to the RFB protocol version number.

a=v: <version_number>

[0057] Where the version_number can be "3.8" meaning that RFB protocol version 3.8 applies.

[0058] The client may specify a list of supported encoding types in priority order. The encoding type is indicated in the framebuffer update messages sent by the Thin Client Server. It can be requested by the client to the server in usual RFB specific "setEncoding" messages. The server may or may not use this indication and pixel data may always be sent in raw encoding if required. [0059] The encoding scheme attributes is in the form:

a=encoding-scheme: <encoding scheme value>

[0060] Where the <encoding scheme value> can be "RAW", "COPYRECT", "RRE", "HEXTILE", "ZLRE", "CURSOR", "CORRE", "ZLIB", ...

[0061] The display number may also be specified. If it is not indicated, then a default port is allocated. Actually the RFB server default port number is usually equal to (5900 + display_number) where display_number usually range from 0 to 6 resulting in 6 possible display connections.

[0062] The display attribute is in the form:

a=dpy: <display number>

[0063] In the case of RFB protocol, the following additional attributes are provided.

5

[0064] The client may indicate whether the session is shared or not. If not indicated, the session must not be shared.

a=shared

[0065] The server must indicate the framebuffer size:

a=framebuff-w: <the width value> a=framebuff-h: <the height value>

[0066] The client may indicate the following attributes as a preference and the server must indicate those attributes.

- O a=pixformat-bpp: <bit-per-pixel value>
- O a=depth: <depth value>
- a=big-endian
- O =true-color
- O a=red-max: <red-max value>
- O a=green-max: <green-max value>
- a=blue-max: <blue-max value>
- O a=red-shift: <red-shift value>
- O a=green-shift: <green-shift value>
- O =blue-shift: <blue-shift value>

[0067] For the sake of interoperability, the client and server behavior regarding the understanding of those previous attributes is same as specified in RFB specification 3.8 except that the Handshaking messages and initialization messages are replaced by SDP offer/answer messages.

[0068] TC semantic.

[0069] A viewer application that receives a session description that contains "m" lines that are grouped together using the TC semantics MUST display and associate a remote desktop control protocol (e.g. RFB) with corresponding media streams like RTP audio/video streams.

a=group:TC

[0070] Then the media-level attribute "a=mid:" must be used in each media line that belongs to a group.

[0071] For appropriate rendering of the remote display, the media line(s) corresponding to RTP streams (e.g. for video transfer) indicate further display location that is relative to the remote display frame buffer coordinates and size. With this information the thin client device is aware of the location of where should be rendered the RTP video stream on the remote desktop framebuffer. The client can therefore adapt the framebuffer update strategy. Particularier in the case of RFB where framebuffer updates are client-driven, the polling intervals can be adjusted as well as which portion of the remote desktop display should be updated.

a=area-x: <x position value> a=area-y: <y position value>

a=area-w: <width value> a=area-h: <height value>

It may also indicate the win-id attribute

a=wind-id: <window identifier>

[0072] Such win-id must be unique within a user session for remote desktop control. Use of this id is further explained in the next section.

[0073] RFB protocol extensions for window specific management on the framebuffer

[0074] RFB graphical update strategy is a client-driven screen update. In RFB specification 3.8, the client can request the update of portion of the whole screen to save bandwidth.

[0075] By introduction of the combination of video traffic in addition to framebuffer updates, the client can receive and map a video onto a dedicated portion of the screen.

[0076] For instance on a limited screen device such as a mobile phone, the client may decide to resize the video buffer to fit the whole mobile device screen. In such a case the client stops refreshing the framebuffer used for the RFB framebuffer update messages. We will call this specific framebuffer "desktop framebuffer" (desktop FB).

[0077] In another foreseen use case, the client receives the graphical update of a media player opened in a dedicated window. Then the client may freely move the video on top of the remote desktop framebuffer locally on its device, and the player may be shown or hidden upon user request. The problem in this situation is that the window movement might need to be indicated to the server for appropriate rendering and screen display management, more particularly if the desktop is shared among multiple users. For instance a first user may control the desktop while other participants may only see the resulting actions of said first user.

[0078] In practice the RTP video stream will be received and handled on a separate framebuffer. By introducing the ability to associate a video media to remote desktop capabilities, and by adding the win-id information, the client is able to freely handle the video media rendering on its screen (performing a rotation, switch to fullscreen mode, etc...) while still being associated to the same user session. The Win-id does not necessarily refer to a window but can also refer to a graphical area though in practice it might be easier to implement it using a window, more particularly if said window is likely to be resized or moved. Two new client requests are then defined:

The FramebufferForgetRequest (message-type, window-id, x-position, y-position, width, height) that tells the server that a specific area on the framebuffer does not require update. This is likely to happen if this area is refreshed by another media stream (e.g. H263 encoded video transported over RTP).

The WindowUpdate (message-type, window-id, x-position, y-position, width, height) that tells the serv-

er that a received media stream corresponding to a window (or graphical area) opened on the server has been resized, moved, or both.

Those client requests must not be used if no windowid exists, i.e. if no independent media stream corresponding to a window is received.

[0079] This also require the server to send the attribute "a=win-id" to indicate whether the media stream received matches a window on the server. If not, the win-id attribute is set to zero and if the attribute is not present the client must not correlate the media stream to a window. [0080] When the media stream does not relate to any windows on the remote server, the client must not resize or move the media on the framebuffer so the WindowUpdate must not be used. However, in a poll model (or client driven framebuffer update) the client may use the FramebufferForgetRequest message in order to inform the server not to update the area specified in the request. However, in a push model, this may not be required as the server should already know that this area is updated using another protocol and encoding.

[0081] When the media stream relates to a window on the remote server, the above client requests (Framebuff-erForgetRequest and WindowUpdate) are used to update the position of the window on the remote server. The window-id information in the FramebufferForgetRequest enables the client to modify the area indication for which the server will not send any framebuffer updates.

[0082] Figure 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated.

[0083] The area B is the area of the screen located at (x,y) position relative to area A (X, Y Base coordinates). It is also characterized by it width (w) and height (h) dimensions. The graphical output is streamed over Real Time Protocol (RTP) and encoded for instance using H263 codec.

[0084] Any user interaction on the area B can therefore be associated to the remote desktop (background) and pointer events from Area B can be sent to the remote server as if they were performed on Area

A. This can be used when the area B is locally resized or moved on the thin client device' screen without necessarily triggering window resizing and movement at the server.

[0085] Figure 3 illustrates a thin client connection establishment between a UE 2 acting as thin client device and a remote desktop PC acting as a thin client server 4.

[0086] The UE 2 connects through an IP access network for communicating with the remote desktop PC 4

and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection).

[0087] At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.

[0088] Upon reception of said SDP offer, the Desktop 4 determines that the UE 2 wishes to establish a thin client connection using RFB protocol, determines that RFB protocol and proposed attributes are acceptable based on the environment where the UE 2 is located and, at step 22, sends back a SDP Answer Message indicating the RFB and attributes are selected.

[0089] The UE 2 and the Desktop 4 agree the direction for the transfer of graphical updates and events. In addition, they identify that the thin client connection pertains to the ongoing session between them.

[0090] After the thin client connection parameters are agreed on both side, the Desktop 4 sends to the UE 2, at step 24, the graphical updates message while said UE 2 sends, at step 26, uplink keys and pointer events to the Desktop 4.

[0091] The Desktop 4 may refuse a connection and can thereby set the port number corresponding to the Graphic or Event Stream to zero, as specified in IETF RFC3264.

[0092] If some thin client parameters are unknown from the Desktop 4, the later silently ignores such parameters, as specified in IETF RFC4566.

[0093] At step 28, the UE 2 and the Desktop 4 exchange RFB media and events.

[0094] At step 30, the user opens a media player to view a video and the Desktop 4 sends a second SDP Offer that the UE 2 may or may not accept. Actually the Desktop 4 wishes to send the video, for example, over RTP and a renegotiation is triggered with the new SDP Offer including the video parameters information. Since the video output is generated by the desktop media player application, the thin client session identifier and the graphical position information is given so that the UE 2 can display the video stream at the right position. Therefore the video stream is combined to the ongoing thin client session

[0095] At step 32, The UE 2 acknowledges the Offer and sends back an Answer. The desktop 4 adapts the display updates so that the area where the video is streamed is not updated via the thin client protocol.

[0096] Figure 4 illustrates an use of the method according to the invention in application display redirection.
[0097] This situation may occur, for example, when a user decides to redirect a video that he receives on mobile UE 2 to a TV 40 SIP-connected at a server, for in-

stance at the set-top-box or any other back-end SIP server, and reachable via its public address.

[0098] In this case, at step 42, the UE 2 connects to the remote desktop 4 through an IP access network for communicating with the remote desktop PC 4. This also relates to steps 20 22, 24, 26, and 28 in figure 3.

[0099] The UE 2 interacts with the desktop by sending key and mouse events. At one moment in time the user opens a media player and decides to play the video.

[0100] At step 44 the desktop 4 sends a SDP Offer/
Answer to enable streaming the video. This decision is based on a local policy and intelligence as well as on local server interface implementation. In a first embodiment this implies applications hosted on the server to request specific media transfer means to a thin client server module (we call this application aware media transfer adaptation). In a second embodiment this implies the thin client server module to autonomously select the most appropriate transfer means.

[0101] Upon reception of this request, the UE 2 sends back, at step 46, an answer to accept or refuse this video stream. In this typical example, the UE 2 supports the redirection feature. The user selects the redirection option and chooses to redirect the video to the TV 40 via the UE 2 User Interface. It is assumed that the mobile phone knows her TV SIP public address or IP address. This means that the thin client device provides a user interface for notifying the user whether to accept the media flow or direct it to another equipment. The Answer message contains the address of the TV and the ID of the application for which the redirection is requested to redirect e.g. the web browser display.

[0102] In this case the redirection refers to the display redirection of an application (this can be a web browser, an instant messaging application, a video,).

[0103] The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not.

[0104] The media negotiation follows with the TV 40 through SIP if SIP is supported. It may be possible that the desktop 4 negotiates the video transfer via other means.

[0105] At step 48, the desktop 4 sends the SDP offer to the TV 40.

[0106] At step 50 the SDP Offer is accepted by the TV which sends back a SDP Answer.

[0107] At step 52, the UE 2 is notified that the TV 40 accepted the redirection.

[0108] Finally, at step 54, the video is displayed on the TV screen 40. The user may continue interacting with the remote desktop 4 using remote desktop control means.

[0109] In the above example the TV 40 is preferably SIP-connected at a server, for instance at the set-top-

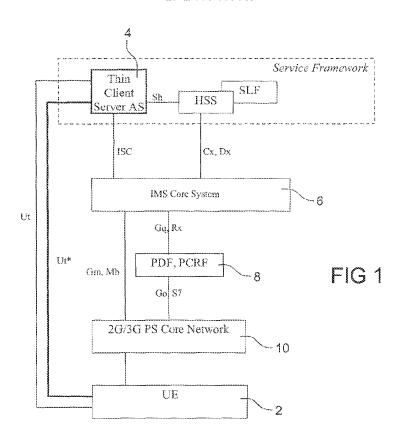
box or any other back-end SIP server, and that it is reachable via its public address.

Claims

- Method for establishing a Thin Client session between a Thin Client device (2) and a Thin Client Server (4) exchanging Handshaking and initialization messages during a session negotiation above a SIP-based framework, characterized in that said Thin Client device (2) and said Thin Client Server (4) exchange additional information representative of the Thin Client context enabling the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session.
- Method according to claim 1 wherein said additional information consists of Thin Client information formatted in SDP (Session Description Protocol) offer/ answer messages.
- Method according to claim 1 wherein said additional information consists of Thin Client information formatted in XML-based offer/answer messages embedded in the body of SIP messages.
- Method according to claim 2 or claim 3 wherein said additional information comprises both multimedia transfers and remote desktop control capabilities.
- Method according to claim 4 wherein said remote desktop control capabilities further comprises dynamically directing or redirecting graphical updates of a remote application from a first device onto a second device.
- Method according to claim 5 wherein said first device is a mobile communication device and said second device is a fixed communication device.
- Method according to claim 6 comprising, transferring uplink events on a separate radio bearer than the one used for the downlink graphical updates.
- Method according to claim 7 comprising transferring uplink events on a separate IP connection that the one used for the downlink graphical updates.
- Method according to claim 1 comprising, associating at least one audio/video stream to the thin client session.
- 10. Method according to claim 8 wherein said additional information comprises remote display framebuffer coordinates and size corresponding to said audio/ video streams associated to said thin client session.

- 11. Method according to claim 9 wherein said additional information allows sending a client request (FramebufferForgetRequest) instructing the server that a specific area on the framebuffer does not require update.
- Method according to claim 11 wherein said additional information comprises window-id attribute.
- 13. Method according to claim 12 wherein said additional information allow sending a client request (WindowUpdate) instructing a server that a graphical area identified by said window-id attribute has been resized, moved or both.
- 14. A thin client device (2) adapted for implementing the method according to claim 1 for establishing a Thin Client session with a Thin Client Server (4), characterized by means for exchanging with said Thin Client Server (4) additional information representative of the Thin Client context enabling the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session, said additional information consisting of SDP (Session Description Protocol) offer/answer messages or XML-based offer/answer messages embedded in the body of SIP messages.
- 15. A thin client device (2) according to claim 14 consisting of a Mobile User Equipment comprising an interface to enable a user to register interest in media redirection in order to get notified upon reception of said media redirection, and to send a redirection answer.
- 16. A thin client device (2) according to claim 14 adapted for establishing a separate IP connection for uplink events, for triggering the allocation of separate radio bearer for transferring said uplink events on a separate radio bearer than the one used for downlink graphical updates, and for mapping the rendering of audio/video stream(s) to said remote display framebuffer on its screen.
- 17. A Thin Client Server (4) adapted for implementing the method according to claim 1 for establishing a Thin Client session with a Thin Client device (2), characterized by means for exchanging with said Thin Client device additional information representative of the Thin Client context enabling the combination and adaptive transfer of multiple media streams in at least one remote application display during said thin client session.

55



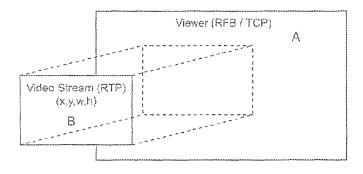
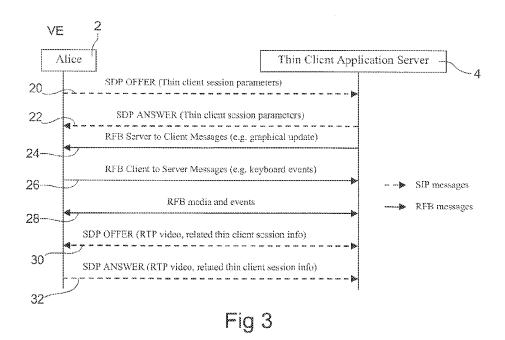


Fig 2



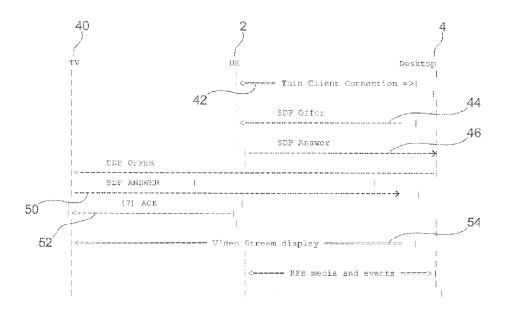


FIG 4



EUROPEAN SEARCH REPORT

Application Number EP 08 16 6122

	Citation of document with is	ndication, where appropriate,	Relevan	t CLASSIFICATION OF THE
Category	of relevant pass		to claim	APPLICATION (IPC)
〈	and Desktop Sharing draft-lennox-avt-ap IETF STANDARD-WORKI ENGINEERING TASK FO	tocols for Application ; ; pp-sharing-00.txt" NG-DRAFT, INTERNET NCE, IETF, CH, 104-12-01), pages 1-22,	1-17	INV. H04L29/06
⟨,D	HELSINKI UNIVERSITY "Session Description Extensions and Conviction Collaboration Applied draft-garcia-mmusic ext" IETF STANDARD-WORKI ENGINEERING TASK FO	on Protocol (SDP) rentions for cations; -sdp-collaboration-00.t NG-DRAFT, INTERNET RCE, IETF, CH, 1008-02-18), pages 1-22,	1-9,14 15,17	TECHNICAL FIELDS SEARCHED (IPC)
X	15 March 2007 (2007 * figures 16,17,19	LO TUN HAN FELIX [CN]) -03-15) * - paragraph [0086] *	1-6,14 15,17	9
	The present search report has	been drawn up for all olaims		
	Place of search	Date of completion of the search	<u> </u>	Examiner
	Munich	24 March 2009	J	urca, Alexandru
X : parti Y : parti docu A : tech O : non-	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone outarly relevant if combined with anoti ment of the same pategory notogisal background written disolosure mediate document	T: theory or principle E: certiler patent doe after the filling det ther D: document atted in L: document atted for E: member of the said	ument, but pu the applicati rather reaso	iblished on, ar on ne



EUROPEAN SEARCH REPORT

Application Number EP 08 16 6122

	DOCUMENTS CONSIDER	•••••		
Category	Oitation of document with indic of relevant passage:		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	OTT TZI J: "SDP Attr Conferencing; draft-o 00.txt" 1ETF STANDARD-WORKING ENGINEERING TASK FORC 12 July 2004 (2004-07 XP015033580 ISSN: 0000-0004 * page 2 - page 5 *	-DRAFT, INTERNET E, IETF, CH,	1-6,14, 15,17	
X	Session Initiation Pr Opportunistic Augment PERVASIVE COMPUTING A 2006. PERCOM 2006. FO INTERNATIONAL CONFERE 13-17 MARCH 2006. PIS USA,IEEE, 13 March 20 pages 1-6, XP01091064 ISBN: 978-0-7695-2518 * page 1 - page 4 *	ation" ND COMMUNICATIONS, URTH ANNU AL IEEE NCE ON PISA, ITALY CATAWAY, NJ, 06 (2006-03-13), 2 -1	1-6,14,	TECHNICAL FIELDS SEARCHED (IPC)
	The present search report has been	·		
	Place of search Munich	Date of completion of the search 24 March 2009	Jur	Examiner rca, Alexandru
X : part Y : part does A : tech O : non	ATEGORY OF CITED DOCUMENTS itsularly relevant if taken alone itsularly relevant if combined with another unent of the same category notogoal background everthen disclosure mediate document	T: theary or principle E: earlier patent door after the filling date D: document ofted in L: document ofted for &: member of the sai document.	ment, but public the application rother reasons	sked on, or

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

EP 08 16 6122

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on.

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-03-2009

Patent document cited in search report	***************************************	Publication date		Patent family member(s)		Publication date
 US 2007058637	A1	15-03-2007	WO CN	2007031021 101107830	A1 A	22-03-2007 16-01-2008

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

Electronic Ac	Electronic Acknowledgement Receipt					
EFS ID:	16555512					
Application Number:	13532546					
International Application Number:						
Confirmation Number:	9012					
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER					
First Named Inventor/Applicant Name:	David Strober					
Customer Number:	26211					
Filer:	Samuel Borodach/Maryann White					
Filer Authorized By:	Samuel Borodach					
Attorney Docket Number:	30160-0005001					
Receipt Date:	09-AUG-2013					
Filing Date:	25-JUN-2012					
Time Stamp:	19:50:00					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment no					
File Listin	g:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		30160-0005001IDS.pdf	159018	yes	2
·		30100 00030011B3.pai	9eff189c4f177f03025a6699962014320fda2 69d		_

	Multipart Description/PDF files in .zip description						
	Document D	Start	End				
	Transmittal Letter		1	1			
	Information Disclosure Statement (IDS) Form (SB08)		2	2			
Warnings:			1				
Information:							
2	Foreign Reference	EP2175607.pdf	674050	no	14		
			a4645f2ecf02c662a28d22f14b0b039d443e a642				
Warnings:							
Information:							
		Total Files Size (in bytes)	83	3068			

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.

Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David Strober Art Unit : Serial No. : 13/532,546 Examiner :

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A

SWAPPABLE MEDIA PLAYER

MAIL STOP AMENDMENT

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

INFORMATION DISCLOSURE STATEMENT

Please consider the references listed on the enclosed PTO-SB-08 or Disclosure Form. A copy of the listed foreign patent document is enclosed; copies of any listed U.S. patents and patent application publications will be provided on request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: August 9, 2013 /Samuel Borodach/

Samuel Borodach Reg. No. 38,388

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Facsimile: (877) 769-7945

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/532,546	06/25/2012	David Strober	30160-0005001 9012	
	7590 11/07/201 ARDSON P.C. (NY)	EXAMINER		
P.O. BOX 1022	2	HOPE, DARRIN		
MINNEAPOLI	S, MN 55440-1022		ART UNIT	PAPER NUMBER
			2173	
			NOTIFICATION DATE	DELIVERY MODE
			11/07/2014	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):

PATDOCTC@fr.com

	Application No. 13/532,546	Applicant(s) STROBER, DAVID					
Office Action Summary	Examiner DARRIN HOPE	Art Unit 2173	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 OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed the mailing date of D (35 U.S.C. § 133	this communication.				
Status							
1) Responsive to communication(s) filed on <u>25 Ju</u> A declaration(s)/affidavit(s) under 37 CFR 1.1 :							
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) An election was made by the applicant in respo			ng the interview on				
; the restriction requirement and election	· · · · · · · · · · · · · · · · · · ·						
 Since this application is in condition for allowan closed in accordance with the practice under E 	•		o the merits is				
Disposition of Claims*							
5) Claim(s) 1-25 is/are pending in the application. 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) 1-25 is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) are subject to restriction and/or * If any claims have been determined allowable, you may be eliparticipating intellectual property office for the corresponding aphttp://www.uspto.gov/patents/init_events/pph/index.jsp or send	election requirement. gible to benefit from the Patent Pro s plication. For more information, plea	ise see	way program at a				
Application Papers							
 10) ☐ The specification is objected to by the Examiner 11) ☒ The drawing(s) filed on 25 June 2012 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 	☑ accepted or b) ☐ objected to drawing(s) be held in abeyance. See	37 CFR 1.85((a).				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign Certified copies: a) All b) Some** c) None of the: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau	s have been received. s have been received in Applicat rity documents have been receiv	ion No					
** 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						
2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SPaper No(s)/Mail Date 06/25/2012:05/09/2013:08/09/2013.	B/08b) Paper No(s)/Mail Da 4) Other:	ше					

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-13) Application/Control Number: 13/532,546 Page 2

Art Unit: 2173

DETAILED ACTION

 The present application is being examined under the pre-AIA first to invent provisions. This Office Action is responsive to the communications filed on 25 June 2012. Claims 1-25 are pending.

Claim Rejections - 35 USC § 103

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 negatived by the manner in which the invention was made.

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.
- 2. Claims 1, 3-11, and 13-25 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US 2007/0155506 A1).

Page 3

3. **Per claim 1**, Chuen discloses a machine-implemented method of presenting content on a display device (Abstract), the method comprising:

 receiving, in a display host (e.g., Thin Client Application Server 4), a communication from a display device (e.g., Thin Client Device 2; paragraphs [0131], "The UE 2 connects through an IP access network for communicating with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "), wherein the display host is operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated. "), wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a

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SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

- opening a first session using a first instance of the swappable media player (paragraphs [0007, [0012], [0016], [0018]; paragraph [0133], "Upon reception of said SDP offer, the Desktop 4 determines that the UE 2 wishes to establish a thin client connection using RFB protocol, determines that RFB protocol and proposed attributes are acceptable based on the environment where the UE 2 is located and, at step 22, sends back a SDP Answer Message indicating the RFB and attributes are selected."); but does not expressly disclose:
- requesting assignment of a unique identifier for the first session from a switchboard server system;
- receiving a unique identifier for the first session from the switchboard server system;
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

4. Malik discloses:

requesting assignment of a unique identifier for the first session from a
 switchboard server system (Abstract, "...A game server, in response to a user
 request, provides a unique identifier associated with an instance of the interactive
 game..."; paragraph [0015]);

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• receiving a unique identifier (e.g., unique identifier 115 as shown in Fig. 2) for the first session from the switchboard server system (paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140....");

- displaying the unique identifier in the first session (paragraph [0035], "...As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... ");
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 5. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to

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improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

- 6. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 1.
- 7. **Per claim 3**, Chuen and Malik disclose the method of claim further including:
 - receiving in the display host a message indicating that particular content is to be
 played in the first session using a specified media player (Chuen, e.g., Step 20
 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the
 Desktop 4 the SDP offer comprising Thin client session attributes and further
 parameters required for the appropriate SIP session establishment.);
 - retrieving and loading the specified media player (Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
 - playing the particular content in the first session using the specified media player
 (Chuen, paragraph [0139] and
 - causing a presentation of the content to be mirrored onto the virtual client residing on the display device(Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a

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presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).

Page 7

- 8. **Per claim 4,** Chuen and Malik disclose the method of claim 3 further including:
 - receiving in the display host a second message indicating that particular second content is to be played in the first session using a specified second media player (Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ");
 - retrieving and loading the second media player (Chuen, paragraphs [0149-0152]);
 - playing the particular second content in the first session using the specified second media player(Chuen, paragraph [0153]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).
- 9. **Per claim 5**, Chuen and Malik disclose the method of claim 1 wherein the content comprises video (Chuen, paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to

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negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control."; paragraph [0019]; Malik, paragraph [0005]).

- **10. Per claim 6**, Chuen and Malik disclose the method of claim 1 wherein the content comprises streaming media (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 12).
- **11. Per claim 7**, Chuen and Malik disclose the method of claim 1 wherein the content comprises visual content (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 1).
- 12. **Per claim 8**, Chuen and Malik disclose the method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier (Chuen, paragraph [0034]).
- 13. **Per claim 9**, Chuen and Malik disclose the method of claim 1 further including:
 - receiving, in the display host, a communication from a second display device (Malik, paragraph [0033]);
 - opening a second session using a second instance of the swappable media
 player (Malik, paragraph [0034]);
 - requesting from the switchboard server system assignment of a second unique identifier for the second session Malik, Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);

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• receiving a second unique identifier for the second session from the switchboard server system(Malik,paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. ...");

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- displaying the second unique identifier in the second session (Malik, paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... "); and
- causing the second unique identifier to be mirrored onto a virtual client residing
 on the second display device (Malik, paragraph [0036]; Fig. 2 illustrates
 displaying unique identifier 115 on display 130. The unique identifier is
 forwarded to remote display devices, e.g., 160, 162, and 170).
- 14. **Per claim 10**, Chuen and Malik disclose the method of claim 9 further including:

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receiving in the display host a second message indicating that particular content is to be played in the first session using a specified media player (Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

- retrieving and loading the specified second media player (Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media player
 (Chuen, paragraph [0139]); and
- causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device (Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).
- 15. **Per claim 11**, Chuen and Malik disclose the method of claim 10 wherein the first and second sessions at least partially overlap in time with one another (Malik, paragraph [0027]; Fig. 2 illustrate wherein the first and second sessions at least partially overlap in time with one another since all the players are forward the unique identifier to play a multiplayer game instance.).
- 16. **Per claim 13**. Chuen discloses a system for presenting content comprising:

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a display device storing a virtual client (e.g., thin client device 2; paragraph [0018]);

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- a display host (e.g., thin client application server 4) operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]); and
- a switchboard server system(e.g., thin client application server 4), wherein the display host is operable to perform operations including:
- receiving a communication from the display device(e.g., step 20);
- receiving, in a display host (e.g., Thin Client Application Server 4), a
 communication from a display device (e.g., Thin Client Device 2; paragraphs
 [0131], "The UE 2 connects through an IP access network for communicating
 with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin
 client parameters including Graphics encoding scheme, the transport settings
 (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent
 Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol),

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IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "), wherein the display host is operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated. "), wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

opening a first session using a first instance of the swappable media player
 (paragraphs [0007, [0012], [0016], [0018]; paragraph [0133], "Upon reception of said SDP offer, the Desktop 4 determines that the UE 2 wishes to establish a thin client connection using RFB protocol, determines that RFB protocol and proposed attributes are acceptable based on the environment where the UE 2 is

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located and, at step 22, sends back a SDP Answer Message indicating the RFB and attributes are selected. "); but does not expressly disclose:

- requesting assignment of a unique identifier for the first session from a switchboard server system;
- receiving a unique identifier for the first session from the switchboard server system;
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

17. Malik discloses:

- requesting assignment of a unique identifier for the first session from a
 switchboard server system (Abstract, "...A game server, in response to a user
 request, provides a unique identifier associated with an instance of the interactive
 game..."; paragraph [0015]);
- receiving a unique identifier (e.g., unique identifier 115 as shown in Fig. 2) for the first session from the switchboard server system (paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled

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number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140....");

- displaying the unique identifier in the first session (paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... ");
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 18. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.
- 19. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 1.

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20. **Per claim 14**, Chuen and Malik disclose the system of claim 13 wherein the display host is further operable to perform operations including:

- receiving a message from the switchboard server system indicating that
 particular content is to be played in the first session using a specified media
 player(Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20,
 the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session
 attributes and further parameters required for the appropriate SIP session
 establishment.);
- retrieving the second media player from a content provider and loading the second media player(Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media
 player(Chuen, paragraph [0139]); and
- causing a presentation of the content to be mirrored onto the virtual client residing on the display device (Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).
- 21. **Per claim 15**, Chuen and Malik disclose the system of claim 14 wherein the display host is further operable to perform operations including:

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receiving a second message from the switchboard server system indicating that
particular second content is to be played in the first session using a specified
second media player(Malik, paragraph [0033]);

- retrieving the second media player from a content provider and loading the second media player(Malik, paragraph [0034]);
- playing the particular second content in the first session using the specified second media player (Chuen, paragraph [0139]); and
- causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).
- **22. Per claim 16,** Chuen and Malik disclose the system of claim 14 wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:
 - receiving a communication from the second display device(Malik, paragraph [0033]);
 - opening a second session using a second instance of the swappable media
 player(Malik, paragraph [0034]);
 - requesting from the switchboard server system assignment of a second unique identifier for the second session; receiving a second unique identifier for the

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second session from the switchboard server system; displaying the second unique identifier in the second session(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);

- causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170);
- receiving a second message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player(Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- retrieving the second media player from a content provider and loading the second media player(Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular second content in the second session using the specified second media player(Chuen, paragraph [0139]); and
- causing a presentation of the second content to be mirrored onto the virtual
 client residing on the second display device(Malik, paragraph [0036]; Fig. 2

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illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).

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- **23. Per claim 17**, Chuen discloses a machine-implemented method of presenting content on a display device, the method comprising:
 - receiving in a display host a message indicating that a specified media player is
 to be used to play particular content using a first instance of a swappable media
 player, wherein the display host is operable to execute multiple instances of the
 swappable media player, wherein each instance of the swappable media player
 is operable to retrieve and load any of a plurality of different media players
 needed to play specified content (e.g., Step 20; paragraph [0132]);
 - retrieving and loading the specified media player using the first instance of the swappable media player; (e.g., Step 22; paragraph [0133]);
 - playing the particular content in a first session using the specified media
 player(e.g., step 30; paragraph [0139]); but does not expressly disclose:
 - causing a presentation of the content to be mirrored onto a virtual client residing
 on a display device associated with the first session(paragraph [0036]; Fig. 2
 illustrates displaying unique identifier 115 on display 130. The unique identifier is
 forwarded to remote display devices, e.g., 160, 162, and 170).
- 24. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay

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devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

- 25. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 17.
- 26. **Per claim 18**. Chuen and Malik disclose the method of claim 17 including:
 - receiving in the display host a second message indicating that a specified second media player is to be used to play particular second content using the first instance of a swappable media player (Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
 - retrieving and loading the second media player using the first instance of the swappable media player(Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
 - playing the particular second content in the first session using the specified second media player(Chuen, paragraph [0139]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the display device (Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.; Malik, Fig. 2 illustrates causing a

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presentation of the content to be mirrored onto the virtual client residing on the display device, i.e., game content 220).

- **27. Per claim 19**, Chuen and Malik disclose the method of claim 17 wherein the message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player includes a unique identifier for the first session (Malik, paragraph [0035]).
- **28. Per claim 20**, Chuen and Malik disclose the method of claim 19 wherein causing a presentation of the content to be mirrored onto the virtual client includes incorporating a watermark into the content before it is mirrored onto the virtual client, wherein the watermark includes the unique identifier (Malik, paragraphs [0035-0036]).
- **29. Per claim 21**, Chuen and Malik disclose the method of claim 20 wherein the watermark also includes another identifier that is uniquely associated with the virtual client (Chuen, paragraph [0114]).
- **30. Per claim 22**, Chuen discloses a system for presenting content (Abstract) comprising:
 - a display device storing a virtual client (e.g., thin client device 2; paragraph
 [0018]);
 - a display host (e.g., thin client application server 4) operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract;

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paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]); and

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- a switchboard server system(e.g., thin client application server 4), wherein the display host is operable to perform operations including:
- receiving from the switchboard server system a message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player(e.g., step 20);
- retrieving and loading the specified media player using the first instance of the swappable media player; (e.g., Step 22; paragraph [0133]);
- playing the particular content in a first session using the specified media
 player(e.g., step 30; paragraph [0139]); but does not expressly disclose:
- causing a presentation of the content to be mirrored onto a virtual client residing
 on a display device associated with the first session(paragraph [0036]; Fig. 2
 illustrates displaying unique identifier 115 on display 130. The unique identifier is
 forwarded to remote display devices, e.g., 160, 162, and 170).
- 31. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay

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devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

- 32. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 22.
- 33. **Per claim 23**, Chuen and Malik disclose the system of claim 22 wherein the message indicating that a specified media player is to be used to play particular content using a first instance of a swappable media player includes a unique identifier for the first session(Malik, paragraph [0035]).
- 34. **Per claim 24**, Chuen and Malik disclose the system of claim 23 the display host is further operable to incorporate a watermark into the content before the content is mirrored onto the virtual client (Chuen, Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.), wherein the watermark includes the unique identifier (Chuen, paragraph [0114]).
- 35. **Per claim 25**, Chuen and Malik disclose the system of claim 24 wherein the watermark also includes another identifier that is uniquely associated with the virtual client(Chuen, paragraph [0114])..
- 36. Claims 2 and 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US

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2007/0155506 A1), and further in view of Sukeda et al. (Hereinafter, Sukeda, US 2009/0172780 A1).

- **37. Per claim 2**, Chuen and Malik disclose the method of claim 1 but do not expressly disclose wherein the unique identifier comprises a QR code.
- **38.** Sukeda discloses wherein the unique identifier comprises a QR code (Sukeda, paragraphs [0052], [0066], [0070], [0077]).
- 39. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen-Malik the thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).
- 40. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 1.
- 41. **Per claim 12**, Chuen and Malik disclose the method of claim 1 but do not expressly disclose method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.
- 42. Sukeda discloses wherein the display host retrieves the specified media player from a content provider via the Internet (Abstract; paragraph [0013]).
- 43. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen-Malik the thin client-server device to improve the device with reasonable expectation that this would result in a thin

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client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).

44. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 12.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARRIN HOPE whose telephone number is (571)270-5079. The examiner can normally be reached on M-TH - 7-4:30, F - 7-3:30, Alt. Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu D. Vu can be reached on (571)272-4057. 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.

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/DARRIN HOPE/ Examiner, Art Unit 2173

/TADEESE HAILU/ Primary Examiner, Art Unit 2173

Application/Control No. Applicant(s)/Patent Under Reexamination 13/532,546 STROBER, DAVID Notice of References Cited Examiner Art Unit Page 1 of 1 **DARRIN HOPE** 2173 **U.S. PATENT DOCUMENTS** Document Number Date Name Classification Country Code-Number-Kind Code MM-YYYY * 07-2007 US-2007/0155506 Malik, Dale 463/042 Α US-2012/0102209 04-2012 Fok Ah Chuen et al. 709/228 В US-С US-D US-Ε

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Notice of References Cited

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Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546		
Information Discl by App	-	Applicant David Strober			
(Use several she (37 CFR §1.98(b))		Filing Date June 25, 2012	Group Art Unit		

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate					
IIIIIIai		Number	Date	1 ateritee	Class	Oubclass	ii Appiopriate					
	1	2009/0172780	Jul 2, 2009	Sukeda et al.								
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	Foreign Patent Documents or Published Foreign Patent Applications										
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Initial	ID d	Number	Date	Patent Office	Class	Subclass	Yes	No			
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	Other Documents (include Author, Title, Date, and Place of Publication)							
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Examiner Signature /Darrin Hope/	Date Considered /D.H./ 11/03/2014
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	13532546	STROBER, DAVID
	Examiner	Art Unit
	DARRIN HOPE	2173

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Sheet <u>1</u> of <u>4</u>

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office		Application No.		
	losure Statement	Applicant David Strober			
(Use several she	ets if necessary)	Filing Date June 25, 2012	Group Art Unit		

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Examiner Signature	/Darrin Hope/	Date Considered	/D.H./ 11/03/2014						
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									
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Substitute Disclosure Form (PTO-1449)

Sheet 2 of 4

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No.	
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant David Strober		
		Filing Date	Group Art Unit	
(37 CFR §1.98(b))		June 25, 2012		

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Examiner Signature	Date Considered /D.I.I. / 11/00/0014
/Darrin Hope/	/D.H./ 11/03/2014
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Sheet 3 of 4

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No.	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant David Strober		
		Filing Date June 25, 2012	Group Art Unit	

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Sheet <u>4</u> of <u>4</u>

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No.	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant David Strober		
		Filing Date June 25, 2012	Group Art Unit	

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Examiner Initial	Desig. ID	Document	
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Substitute Disclosure Form (PTO-1449)

Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
13532546	STROBER, DAVID
Examiner	Art Unit
DARRIN HOPE	2173

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Symbol	Date	Examiner
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CPC COMBINATION SETS - SEARCHED				
Symbol Date Exam				

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Class	Subclass	Date	Examiner
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SEARCH NOTES		
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CONFIRMATION NO. 9012

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INVENTORS David Strober, Rye, NY;									
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Sheet <u>1</u> of <u>1</u>

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546	
Information Disclosure Statement by Applicant		Applicant David Strober		
(Use several she (37 CFR §1.98(b))	ets if necessary)	Filing Date June 25, 2012	Group Art Unit	

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Examiner	Desig.	Document	Publication				Filing Date		
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Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No

	Other Documents (include Author, Title, Date, and Place of Publication)					
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Examiner Signature /Darrin Hope/	Date Considered /D.H./ 11/03/2014
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next communication to applicant.	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L2	2853	715/716.ccls.	US- PGPUB; USPAT	OR	OFF	2014/11/03 14:08
L3	1189	G06F3/01.cpc.	US- PGPUB; USPAT	OR	OFF	2014/11/03 14:09
L4	52	L2 and L3	US- PGPUB; USPAT	OR	OFF	2014/11/03 14:09
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S8	996	S6 and (not strober).inv.	US- PGPUB; USPAT	OR	OFF	2014/01/28 06:40
S7	13	S6 and QR near2 code\$1	US- PGPUB; USPAT	OR	OFF	2014/01/28 06:38
S6	1000	S1 or S2 or S3 or S4 or S5	US- PGPUB; USPAT	OR	OFF	2014/01/28 06:37
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S14	145	(sling near2 media).as.	US- PGPUB; USPAT	OR	OFF	2014/01/28 06:57
S15	59	S6 and (not strober).inv. and (not touchstream).as. and HDMI	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:00
S16	2	S6 and (not strober).inv. and (not touchstream).as. and HDMI and hulu	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:03
S17	28	S6 and (not strober).inv. and (not touchstream).as. and hulu	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:05
S18	10	S6 and (not strober).inv. and (not touchstream).as. and smart near2 tv	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:06
S19	16	S6 and smart near2 (tv or television)	US- PGPUB; USP A T	OR	OFF	2014/01/28 07:43
S20	307	"715".clas. and smart near2 (tv or television)	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:44
S21	1	"20140013239"	US- PGPUB; USPAT	OR	OFF	2014/01/28 07:46
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S24	3	S6 and (not strober).inv. and (not touchstream).as. and (retriev\$3 with media with player\$1) and (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:23
S25	3	S6 and (not strober).inv. and (not touchstream).as. and (retriev\$3 with media with player\$1) and (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:26
S26	3	S6 and (not strober).inv. and (not touchstream).as. and (retriev\$3 with media with player\$1) and (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:26
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S30	1	(swap\$7 or exchang\$7) same (media with player\$1) same (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:29
S31	2	(swap\$7 or exchang\$7 or replace\$7) same (media with player\$1) same (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:30
S32	2	(swap\$7 or exchang\$7 or replace\$7) same (media same player\$1) same (browser with instances)	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:46
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S35	3	"6813630"	US- PGPUB; USPAT	OR	OFF	2014/01/28 08:57
S36	37	"7426537"	US- PGPUB; USPAT	OR	OFF	2014/01/28 09:06
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S61	9	S56 and code\$1 same QR	US- PGPUB; USPAT	OR	OFF	2014/01/28 11:53
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J1 Z		or a and graviting	PGPUB;		5	13:50

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S82	86	S81 and virtual near5 (client or "user interface")	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:33
S83	0	S81 and "virtual client"	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:37
S84	39	S81 and SIP	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:38
S85	2	S81 and vnc	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:45
S86	9	("virtual client").ti.	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:45
S87	62	("virtual client") and set\$1top	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:47
S88	0	("virtual client") and set\$1top and "TV 40"	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:49
S89	0	virtual near2 dient and set\$1top and "TV 40"	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:50
S90	6	virtual and set\$1top and "TV 40"	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:50
S91	40	S81 and "thin client"	US- PGPUB; USPAT	OR	OFF	2014/02/18 07:51
S92	29	S81 and "thin client" and session	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:03
S93	29	S81 and "thin client" and session\$1	US- PGPUB;	OR	OFF	2014/02/18 08:03

			USPAT			
S94	4	S81 and "thin client" same stor\$3 same display same device	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:13
S95	0	S81 and "virtual client" same stor\$3 same display same device	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:14
S96	8	"virtual client" same stor\$3 same display same device	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:14
S97	5	"virtual client" same stor\$3 same "display device"	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:16
S98	1	"virtual dient" same resid\$3 same "display device"	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:16
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S100	57	(virtual near3 user near3 interface).ti.	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:18
S101	4	(virtual near3 user near3 interface).ti. and set\$1top	US- PGPUB; USPAT	OR	OFF	2014/02/18 08:19
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S114		S112 and sip and thin near2 client	US- PGPUB; USPAT	OR	OFF	2014/05/08 09:56
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S121	0	"20110179106" and "virtual UI server" with receiv\$3	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:39
S122	1	"20110179106" and "virtual UI server" same receiv\$3	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:39
S123	1	"20110179106" and "virtual UI server"	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:40
S124	121	thin near2 client with stb	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:44
S125	0	thin near2 client with sUI	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:45
S126	167	thin near2 client with UI	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:45
S127	1	stb same thin near2 client with UI	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:46
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S129	1	stb same thin near2 client same Ul	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:50
S130	0	settop same thin near2 client same Ul	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:51
S131	1	set\$1top same thin near2 client same UI	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:51
S132	4	("20080101466" "20090178063" "20100333150" "20120192234").P N .	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:53
S133	10	thin near2 client with UI and mirror\$3	US- PGPUB; USPAT	OR	OFF	2014/05/08 13:55
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From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

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Application	Document	Mailroom Date	Attorney Docket No.
13532546	CTNF	11/07/2014	30160-0005001
	892	11/07/2014	30160-0005001
	1449	11/07/2014	30160-0005001
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UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: David Strober Art Unit: 2173

Serial No. : 13/532,546 Examiner : Hope, Darrin

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT

USING A SWAPPABLE MEDIA PLAYER

Mail Stop Amendment

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

AMENDMENT IN REPLY TO OFFICE ACTION OF NOVEMBER 7, 2014

Please amend the above-identified application as follows:

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Amendments to the claims.

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A machine-implemented method of presenting content on a display device, the method comprising:

receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player;

requesting assignment of a unique identifier for the first session from a switchboard server system;

receiving a unique identifier for the first session from the switchboard server system; displaying the unique identifier in the first session; and

causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device:

receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier;

in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player;

playing the particular content in the first session using the specified media player;

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causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving in the display host a second message from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier; and

executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

- 2. (Original) The method of claim 1 wherein the unique identifier comprises a QR code.
- 3. (Canceled)
- 4. (Currently amended) The method of claim 1 [[3]] further including:

receiving in the display host a second third message from the switchboard server system indicating instructing that particular second content is to be played in the first session using a specified second media player;

in response to the third message, retrieving and loading the second media player; playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

- 5. (Original) The method of claim 1 wherein the content comprises video.
- 6. (Original) The method of claim 1 wherein the content comprises streaming media.

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7. (Original) The method of claim 1 wherein the content comprises visual content.

8. (Original) The method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier.

9. (Original) The method of claim 1 further including:

receiving, in the display host, a communication from a second display device; opening a second session using a second instance of the swappable media player;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session; and causing the second unique identifier to be mirrored onto a virtual client residing on the second display device.

10. (Currently amended) The method of claim 9 further including:

receiving in the display host a second third message indicating that particular second content is to be played in the second session using a specified second media player;

in response to the third message, retrieving and loading the second media player; playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

11. (Original) The method of claim 10 wherein the first and second sessions at least partially overlap in time with one another.

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12. (Original) The method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.

13. (Currently amended) A system for presenting content comprising:

a display device storing a virtual client;

instance of the swappable media player;

a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; and

a switchboard server system,

wherein the display host is operable to perform operations including:

receiving a communication from the <u>a</u> display device <u>storing a virtual client;</u> <u>in response to receiving the communication</u>, opening a first session using a first

requesting assignment of a unique identifier for the first session from the switchboard server system;

receiving a unique identifier for the first session from the switchboard server system;

displaying the unique identifier in the first session; and

causing the image of the unique identifier to be mirrored onto the virtual client residing on the display device

receiving a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier;

in response to receiving the first message, retrieving and the specified media player using the first instance of the swappable media player;

playing the particular content in the first session using the specified media player;

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causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving a second message from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier; and

executing the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

14. (Canceled)

15. (Currently amended) The system of claim 13 [[14]] wherein the display host is further operable to perform operations including:

receiving a second third message from the switchboard server system indicating that particular second content is to be played in the first session using a specified second media player;

<u>in response to receiving the third message</u>, retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

16. (Currently amended) The system of claim $\underline{13}$ [[14]] wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:

receiving a communication from the second display device;

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in response to receiving the communication from the second display device, opening a second session using a second instance of the swappable media player;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session;

causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device.

receiving a second <u>fourth</u> message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player;

retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

17 - 25. (Canceled)

Serial No. : 13/532,546 Filed : June 25, 2012 Page : 8 of 13

REMARKS

Claims 1-2, 4-13 and 15-16 are presented for further examination.

Claims 3, 14 and 17-25 are canceled without prejudice.

No new matter is introduced by the amendments, which are supported by the specification as originally filed.

The present application describes, among other things, a method of presenting content on a display device. The method can include, in some implementations, various steps performed by a display host (e.g., 22 in FIG. 1), some of which are in response to communications from a display device (e.g., 23 in FIG. 1) and some of which are in response to messages sent by a switchboard server system (e.g., 24 FIG. 1) in response to a message originating in a handheld Internet-enabled personal computing device (e.g., 20 in FIG. 1). The method can facilitate using the personal computing device to control content that is presented on the display device. Various messages regarding what content to play, what media player (i.e., computer software application) to use, and/or what play control commands to execute, are transmitted from the personal computing device to the switchboard system (e.g., by way of a network such as the Internet), which then forwards a corresponding message to the virtual display host for execution.

The virtual display host is operable "to execute multiple instances of a browser each of which operates as a *swappable media player*, *wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content.*" The presentation of particular content being played in a particular session then can be mirrored onto the virtual client residing on the display device.

An advantage, in some implementations, of providing a swappable media player (*i.e.*, that can retrieve and load any of a plurality of different media players needed to play specified content) in the virtual display host is that the techniques can be used even if the display device has somewhat limited processing power and would not be sufficiently powerful to run the swappable media player (par. [0009] of the Specification). Further, the techniques can, in some

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Filed : June 25, 2012
Page : 9 of 13

cases, facilitate centralized processing of the swappable media player for multiple display devices (*Id.*) Also, providing the switchboard server system as well as the display host can allow additional functionality to be provided by the switchboard server system (*see, e.g.*, pars. [0029] – [0030] of the Specification).

As recited, for example, in claim 1, a display host receives a <u>communication</u> from a display device and, in response, opens a first session is opened using a first instance of a swappable media player. A unique identifier for the first session is received the switchboard server system, the unique identifier is displayed in the first session, and the display of the unique identifier is mirrored onto a virtual client residing on the display device.

Also according to claim 1, a <u>first message</u> is received, in the display host, *from the switchboard server system* instructing that particular <u>content</u> be played in the first session using a specified one of the media players. The first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier. In response to receiving the first message, the display host retrieves and loads the specified media player using the first instance of the swappable media player, and plays the particular content in the first session using the specified media player. A presentation of the particular content is mirrored onto the virtual client residing on the display device.

Further, according to claim 1, a <u>second message</u> is received, in the display host, *from the switchboard server system* instructing that a particular <u>play control command</u> be executed with respect to the particular content being played in the first session. The second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier. The display host then executes the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

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Rejections under 35 USC §103(a) (pre-AIA)

The Office rejected the claims as follows:

- (1) Claims 1, 3-11 and 13-25 were rejected as unpatentable over Chuen (US 2012/0102209) in view of Malik (US 2007/0155506).
- (2) Claims 2 and 12 were rejected as unpatentable over Chuen in view of Malik and further in view of Sukeda (US 2009/0172780).

Applicant respectfully requests reconsideration.

Chuen, for example, describes a method for establishing a thin client session that allows, for example, a user to redirect video received in a mobile device 2 to a TV 40 by interacting with a thin client server (desktop) 4. Also, as described by Chuen, a user interaction on an Area B of a screen can be associated to a remote desktop, and pointer events from Area B can be sent to a remote server as if they were performed on an Area A (pars. [0127] – [0129]).

Malik describes a game server 110 that initiates an instance 112 of a game. The instance includes a unique identifier 115 which is transmitted from the server 110 to a display 134 associated with a set top box 140. The potential players can observe the unique identifier 115 in video information presented in the display 134 and then can communicate user name and device information, along with the unique identifier, back to the game server. Those players and their wireless devices are then associated with the game instance.

Neither Chuen nor Malik, however, teaches or suggests a display host operable to execute multiple instances of a browser "each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content."

Furthermore, neither Chuen nor Malik, taken alone or in combination, teach or suggest the particular features now recited in the method of claim 2. In particular, those references fail to

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teach a display host that performs each of the following, together with the other associated features recited in claim 1:

- "in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player," "requesting assignment of a unique identifier for the first session from a switchboard server system," "receiving a unique identifier for the first session from the switchboard server system," "displaying the unique identifier in the first session," and "causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device."
- "receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier," and "in response to receiving the first message, retrieving and loading" "the specified media player using the first instance of the swappable media player," "playing the particular content in the first session using the specified media player," and "causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device."
- "receiving in the display host a second message from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier," and "executing" "the particular play control command with respect to the

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particular content being played in the first session that is mirrored onto the virtual client residing on the display device."

Further, as already noted, claim 1 recites that the method includes "receiving in the display host a second message from the switchboard server system *instructing that a particular* play control command be executed with respect to the particular content being played in the first session" that previously was opened "using the first instance of the swappable media player." Thus, the play control command is directed to the swappable media player, not to a desktop itself.

Sukeda fails to cure the deficiencies of the combination of Chuen nor Malik.

At least for the foregoing reasons, the rejections of claim 1 and its dependent claims should be withdrawn and the claims should be allowed.

Claim 13 and its dependent claims also should be allowed for at least similar reasons.

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Conclusion

It is believed that all rejections of the pending claims have been addressed. However, the

absence of a reply to a specific rejection, issue or comment does not signify agreement with or

concession of that rejection, issue or comment. In addition, because the arguments made above

may not be exhaustive, there may be reasons for patentability of any or all pending claims (or

other claims) that have not been expressed. Finally, nothing in this paper should be construed as

intent to concede any issue with regard to any claim, except as specifically stated in this paper,

and the amendment of any claim does not necessarily signify concession of unpatentability of the

claim prior to its amendment.

In view of the preceding arguments and amendments, the claims are believed to be in

condition for allowance.

Applicant also respectfully requests consideration of any Information Disclosure

Statements filed in this application which have not yet been considered by the Examiner.

Any fees for extensions of time are being paid concurrently herewith on the Electronic

Filing System (EFS) by way of Deposit Account authorization. Please apply any necessary

charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: April 7, 2015 /Samuel Borodach/

Samuel Borodach Reg. No. 38,388

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30863960.doc

Electronic Patent Application Fee Transmittal									
Application Number:	13532546								
Filing Date:	25-	Jun-2012							
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER								
First Named Inventor/Applicant Name:	Da	vid Strober							
Filer:	Sar	nuel Borodach/Mar	yann White						
Attorney Docket Number:	30	160-0005001							
Filed as Small Entity									
Filing Fees for Utility under 35 USC 111(a)									
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Basic Filing:									
Pages:									
Claims:									
Miscellaneous-Filing:									
Petition:	Petition:								
Patent-Appeals-and-Interference:									
Post-Allowance-and-Post-Issuance:									
Extension-of-Time:									

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Extension - 2 months with \$0 paid	2252	1	300	300		
Miscellaneous:						
	Tot	al in USD	(\$)	300		

Electronic Acknowledgement Receipt					
EFS ID:	21994974				
Application Number:	13532546				
International Application Number:					
Confirmation Number:	9012				
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER				
First Named Inventor/Applicant Name:	David Strober				
Customer Number:	26211				
Filer:	Samuel Borodach/Maryann White				
Filer Authorized By:	Samuel Borodach				
Attorney Docket Number:	30160-0005001				
Receipt Date:	07-APR-2015				
Filing Date:	25-JUN-2012				
Time Stamp:	16:37:57				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$300
RAM confirmation Number	3143
Deposit Account	061050
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 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		30160-0005001Response.pdf	128081	yes	13
'		30100-000300 Mesponse.pui	c0ed74055c0091ef1040fe2ad17e277a984c 43fa	yes	13
	Multip	zip description			
	Document De	Start	End		
	Amendment/Req. Reconsiderat	ion-After Non-Final Reject	1	1	
	Claims	2	7		
	Applicant Arguments/Remarks	8	13		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30836	no	2
	ree worksheet (speed)	rec inicipal	06acdc135263b61abdccff00c31c98254f13 ce3c	110	
Warnings:					
Information:					
		Total Files Size (in bytes):	15	8917	

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.

PTO/SB/06 (09-11) Approved for use through 1/31/2014. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					RMINATION	Application	n or Docket Number 8/532,546	Filing Date 06/25/2012	
	ENTITY: LARGE SMALL MICRO								
	APPLICATION AS FILED – PART I								
(Column 1) (Column 2)									
	FOR		NUM	/BER FIL	.ED	NUMBER EXTRA		RATE (\$)	FEE (\$)
	BASIC FEE (37 CFR 1.16(a), (b), (or (c))	N/A			N/A		N/A	
ᄖ	SEARCH FEE (37 CFR 1.16(k), (i), o	or (m))	N/A			N/A		N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p),		N/A			N/A		N/A	
	TAL CLAIMS CFR 1.16(i))		minus 20 = *		us 20 = *			X \$ =	
	EPENDENT CLAIM CFR 1.16(h))	S		mi	nus 3 = *		x :		
	APPLICATION SIZE (37 CFR 1.16(s))	FEE 1	of pape for sma	er, the a all entity n therec	application size f v) for each additi	gs exceed 100 s ee due is \$310 (onal 50 sheets c . 41(a)(1)(G) and	\$155 r		
	MULTIPLE DEPEN	IDENT CLAIR	M PRES	SENT (37	7 CFR 1.16(j))				
* If t	he difference in colu	ımn 1 is less	than ze	ero, ente	r "0" in column 2.			TOTAL	
		(Column	1)		APPLICAT	ION AS AMEN		ART II	
AMENDMENT	04/07/2015	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EX	TRA	RATE (\$)	ADDITIONAL FEE (\$)
ME	Total (37 CFR 1.16(i))	* 14		Minus	** 25	= 0		x \$40 =	0
	Independent (37 CFR 1.16(h))	* 2		Minus	***4	= 0		x \$210 =	0
AM	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
								TOTAL ADD'L FE	E 0
		(Column	1)		(Column 2)	(Column 3)		
		CLAIMS REMAINII AFTEF AMENDME	NG R		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE (\$)	ADDITIONAL FEE (\$)
EN	Total (37 CFR 1.16(i))	*		Minus	**	=		X \$ =	
ENDMENT	Independent (37 CFR 1.16(h))	*		Minus	***	=		X \$ =	
IEN	Application Size Fee (37 CFR 1.16(s))								
AM	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
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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 FEED OR COMPLETED FORMS TO THIS

ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.
13/532,546	06/25/2012	David Strober	30160-0005001	9012
	7590 07/30/201 ARDSON P.C. (NY)	5	EXAM	IINER
P.O. BOX 1022	` '		НОРЕ, І	DARRIN
			ART UNIT	PAPER NUMBER
			2173	
			NOTIFICATION DATE	DELIVERY MODE
			07/30/2015	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):

PATDOCTC@fr.com

	Application No. 13/532,546	Applicant(s) STROBER, DAVID					
Office Action Summary	Examiner DARRIN HOPE	Art Unit 2173	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 <u>7 Apr</u> A declaration(s)/affidavit(s) under 37 CFR 1.1							
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.						
3) An election was made by the applicant in respo	onse to a restriction requirement s	set forth durin	g the interview on				
; the restriction requirement and election 4) Since this application is in condition for alloware closed in accordance with the practice under E	nce except for formal matters, pro	secution as to	o the merits is				
Disposition of Claims*							
5) Claim(s) 1.2.4-13.15 and 16 is/are pending in the 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) 1.2.4-13.15 and 16 is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) are subject to restriction and/or are subject to restriction and/or and the subject is are subject to restriction and/or the subject in the corresponding as a http://www.uspto.gov/patents/init_events/pph/index.jsp or send	vn from consideration. relection requirement. gible to benefit from the Patent Prosportion. For more information, plea	ise see	vay program at a				
Application Papers							
 10) ☐ The specification is objected to by the Examiner. 11) ☑ The drawing(s) filed on 25 June 2012 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/08a and/or PTO/S	3) ☐ Interview Summary Paper No(s)/Mail Da SB/08b) 4) ☐ Othor:						
Paper No(s)/Mail Date	4)						

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-13) Application/Control Number: 13/532,546 Page 2

Art Unit: 2173

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions. This Office Action is responsive to the communications filed on 7 April 2015. Claims 1-2, 4-13, and 15-16 are pending.

Claim Rejections - 35 USC § 103

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 negatived by the manner in which the invention was made.

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.
- 2. Claims 1, 4-11, and 13, 15, and 16 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US 2007/015506 A1).

Application/Control Number: 13/532,546

Art Unit: 2173

3. **Per claim 1**, Chuen discloses a machine-implemented method of presenting content on a display device (Abstract), the method comprising:

Page 3

receiving, in a display host (e.g., Thin Client Application Server 4), a communication (e.g., Step 20 as shown in Fig. 3 'SDP OFFER(THIN CLIENT SESSION PARAMETERS') from a display device (e.g., Thin Client Device 2; paragraphs [0131], "The UE 2 connects through an IP access network for communicating with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "; paragraph [0132], "At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment."), wherein the display host is operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated. "), wherein each

instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

- receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player(e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media
 player(paragraph [0153);

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Art Unit: 2173

 causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device (Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).

Page 5

- receiving in the display host a second message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the second message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device(Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ").

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Art Unit: 2173

4. Chuen does not expressly disclose:

 requesting assignment of a unique identifier for the first session from a switchboard server system;

- receiving a unique identifier for the first session from the switchboard server system; and
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

5. Malik discloses:

- requesting assignment of a unique identifier for the first session from a switchboard server system(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game... "; paragraph [0005], "...The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier.... ");
- receiving a unique identifier for the first session from the switchboard server system (e.g., Step 420 'PROVIDE A UNIQUE IDENTIFIER' as shown in Fig. 4'; paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015];

paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140.... "; Examiner's Note: The Examiner reasonably and broadly interprets the game server to be a switchboard server.);

- displaying the unique identifier in the first session (paragraph [0035], "...As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... "); and
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 6. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

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7. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 1.

- 8. **Per claim 4,** Chuen and Malik disclose the method of claim 3 further including:
 - receiving in the display host a third message from the switchboard server system instructing that particular second content is to be played in the first session using a specified second media player (Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ");
 - in response to the third message, retrieving and loading the second media player
 (Chuen, paragraphs [0149-0152]);
 - playing the particular second content in the first session using the specified second media player(Chuen, paragraph [0153]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).

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9. **Per claim 5**, Chuen and Malik disclose the method of claim 1 wherein the content comprises video (Chuen, paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control."; paragraph [0019]; Malik, paragraph [0005]).

- **10. Per claim 6**, Chuen and Malik disclose the method of claim 1 wherein the content comprises streaming media (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 12).
- **11. Per claim 7**, Chuen and Malik disclose the method of claim 1 wherein the content comprises visual content (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 1).
- 12. **Per claim 8**, Chuen and Malik disclose the method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier (Chuen, paragraph [0034]).
- 13. **Per claim 9**, Chuen and Malik disclose the method of claim 1 further including:
 - receiving, in the display host, a communication from a second display device (Malik, paragraph [0033]);
 - opening a second session using a second instance of the swappable media
 player (Malik, paragraph [0034]);

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requesting from the switchboard server system assignment of a second unique identifier for the second session Malik, Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);

- receiving a second unique identifier for the second session from the switchboard server system(Malik,paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via
- displaying the second unique identifier in the second session (Malik, paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... "); and
- causing the second unique identifier to be mirrored onto a virtual client residing
 on the second display device (Malik, paragraph [0036]; Fig. 2 illustrates

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displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).

- 14. **Per claim 10**, Chuen and Malik disclose the method of claim 9 further including:
 - receiving in the display host a third message indicating that particular content is
 to be played in the first session using a specified media player (Chuen, e.g., Step
 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the
 Desktop 4 the SDP offer comprising Thin client session attributes and further
 parameters required for the appropriate SIP session establishment.);
 - in response to the third message, retrieving and loading the specified second media player (Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
 - playing the particular content in the first session using the specified media player
 (Chuen, paragraph [0139]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device (Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e., game content 220).
- 15. **Per claim 11**, Chuen and Malik disclose the method of claim 10 wherein the first and second sessions at least partially overlap in time with one another (Malik, paragraph [0027]; Fig. 2 illustrate wherein the first and second sessions at least partially overlap in

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time with one another since all the players are forward the unique identifier to play a multiplayer game instance.).

- 16. **Per claim 13**. Chuen discloses a system for presenting content comprising:
 - a display host (e.g., thin client application server 4) operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]); and
 - a switchboard server system(e.g., thin client application server 4), wherein the display host is operable to perform operations including:
 - receiving a communication from a display device(e.g., step 20) storing a virtual
 client (e.g., thin client device 2; paragraph [0018]);
 - receiving, in a display host (e.g., Thin Client Application Server 4), a
 communication from a display device (e.g., Thin Client Device 2; paragraphs
 [0131], "The UE 2 connects through an IP access network for communicating
 with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin
 client parameters including Graphics encoding scheme, the transport settings

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(RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "), wherein the display host is operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated. "), wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

opening a first session using a first instance of the swappable media player
 (paragraphs [0007, [0012], [0016], [0018]; paragraph [0133], "Upon reception of said SDP offer, the Desktop 4 determines that the UE 2 wishes to establish a thin client connection using RFB protocol, determines that RFB protocol and

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proposed attributes are acceptable based on the environment where the UE 2 is located and, at step 22, sends back a SDP Answer Message indicating the RFB and attributes are selected. ");

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- receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player(e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media player(paragraph [0153);
- causing a presentation of the particular content to be mirrored onto the virtual
 client residing on the display device (Fig. 4 illustrates causing a presentation of
 the second content to be mirrored onto the virtual client residing on the display
 device where content from one device is redirected for display on another
 device.).

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receiving in the display host a second message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the second message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

- executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device(Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. "); but does not expressly disclose:
- receiving a unique identifier for the first session from the switchboard server system;
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device.

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17. Malik discloses:

- requesting assignment of a unique identifier for the first session from a
 switchboard server system (Abstract, "...A game server, in response to a user
 request, provides a unique identifier associated with an instance of the interactive
 game..."; paragraph [0015]);
- receiving a unique identifier (e.g., unique identifier 115 as shown in Fig. 2) for the first session from the switchboard server system (paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140.... ");
- displaying the unique identifier in the first session (paragraph [0035], "...As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... ");

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 causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).

- 18. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more deplay devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.
- 19. Therefore, it would have been obvious to one of ordinary skill in the art tocombine the teachings of Chuen and Malik to obtain the invention as specified in claim1.
- 20. **Per claim 15**, Chuen and Malik disclose the system of claim 14 wherein the display host is further operable to perform operations including:
 - receiving a second message from the switchboard server system indicating that
 particular second content is to be played in the first session using a specified
 second media player(Malik, paragraph [0033]);
 - retrieving the second media player from a content provider and loading the second media player(Malik, paragraph [0034]);

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 playing the particular second content in the first session using the specified second media player (Chuen, paragraph [0139]); and

- causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).
- **21. Per claim 16,** Chuen and Malik disclose the system of claim 13 wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:
 - receiving a communication from the second display device(Malik, paragraph
 [0033]);
 - in response to receiving the communication from the second display device, opening a second session using a second instance of the swappable media player(Malik, paragraph [0034]);
 - requesting from the switchboard server system assignment of a second unique identifier for the second session; receiving a second unique identifier for the second session from the switchboard server system; displaying the second unique identifier in the second session(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);

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 causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170);

- receiving a fourth message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player(Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- retrieving the second media player from a content provider and loading the second media player(Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular second content in the second session using the specified second media player(Chuen, paragraph [0139]); and
- causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device(Malik, paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 22. Claims 2 and 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US

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2007/0155506 A1), and further in view of Sukeda et al. (Hereinafter, Sukeda, US 2009/0172780 A1).

- **23. Per claim 2**, Chuen and Malik disclose the method of claim 1 but do not expressly disclose wherein the unique identifier comprises a QR code.
- **24.** Sukeda discloses wherein the unique identifier comprises a QR code (Sukeda, paragraphs [0052], [0066], [0070], [0077]).
- 25. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen-Malik the thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).
- 26. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 1.
- 27. **Per claim 12**, Chuen and Malik disclose the method of claim 1 but do not expressly disclose method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.
- 28. Sukeda discloses wherein the display host retrieves the specified media player from a content provider via the Internet (Abstract; paragraph [0013]).
- 29. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen-Malik the thin client-server device to improve the device with reasonable expectation that this would result in a thin

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client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).

30. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen and Malik to obtain the invention as specified in claim 12.

Response to Arguments

- 31. Applicant's arguments filed 7 April 2015 have been fully considered but they are not persuasive.
- 32. On page 10, the Applicant argues that "neither Chuen nor Malik, however, teaches or suggests a display host operable to execute multiple instances of a browser "each of which operates as a swappable media player, wherein each instance of the swappable media player is" operable to retrieve and load any of a plurality of different media players needed to play specified content."
- **33.** The Examiner disagrees since Chuen teaches and suggests a display host operable to execute multiple instances of a browser "each of which operates as a swappable media player, wherein each instance of the swappable media player is" operable to retrieve and load any of a plurality of different media players needed to play specified content" (See paragraphs [0011], [0014], [0050], and [0131]).
- 34. Furthermore, the Applicant argues that "neither Chuen nor Malik, taken alone or in combination, teach or suggest the particular features now recited in the method of claim 2. "

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35. The Examiner disagrees since neither Chuen nor Malik were relied upon to disclose claim 2. Sukeda discloses wherein the unique identifier comprises a QR code (Sukeda, paragraphs [0052], [0066], [0070], [0077]).

- 36. Finally, the Applicant argues that neither Chuen nor Malik disclose the amended claim 1.
- 37. The Examiner disagrees as described in the above rejection. Therefore, the Examiner maintains the rejection of Claims 1-2, 4-13, and 15-16.

Conclusion

THIS ACTION IS MADE FINAL. 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 mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARRIN HOPE whose telephone number is (571)270-5079. The examiner can normally be reached on M-TH - 7-4:30, F - 7-3:30, Alt. Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu D. Vu can be reached on (571)272-4057. 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.

/DARRIN HOPE/ Examiner, Art Unit 2173

/TADEESE HAILU/ Primary Examiner, Art Unit 2173

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Index of Claims	13532546	STROBER, DAVID
	Examiner	Art Unit
	DARRIN HOPE	2173

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Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
13532546	STROBER, DAVID
Examiner	Art Unit
DARRIN HOPE	2173

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/01	11/3/2014	DH

CPC COMBINATION SETS - SEARCHED					
Symbol	Date	Examiner			

US CLASSIFICATION SEARCHED					
Class	Subclass	Date	Examiner		
715/716		11/3/2014	DH		

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	7/25/2015	DH

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

EAST Search History

EAST Search History (Prior Art)

Ref Hit	s Search Query	DBs	Default Operator	Plurals	Time Stamp
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S16	235	(((display or gaming or tablet or personal or laptop))near2 (device or apparatus or terminal or console or computer)) or television) same (send\$3 or transmi\$9) same "unique identifier" same (host or stb or PC	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:02
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S23	3	S14 and display same "unique code"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:11
S24	47	S14 and display same "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:12
S25	2	S14 and television same "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:12
S26	410	S14 and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:14
S27	2	S14 and "unique identifier" same television	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:14
S28	47	S14 and "unique identifier" same display	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:15

S29	7	S14 and "unique identifier" same display same host	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:15
S30	0	S14 and humpelmann	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:16
S31	0	S14 and humpelman	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:16
S32	42	S14 and hump\$9	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:16
S33	2	S14 and hump\$9.inv.	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:17
S34	167	S14 and "thin client"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:17
S35	3	S14 and "thin client" same identifier	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:18
S36	0	S14 and "thin client" same identifier same television	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:19
S37	9	S14 and identifier same television same unique	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:19
S38	9	S14 and QR	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:20
S39	25	S14 and google.as.	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:02
S40	0	S14 and hromecast	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:05
S41	37	chromecast	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:05
S42	12	chromecast and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:07
S43	41	S1 and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:07
S44	2	humpelman	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:09
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S48	0	S14 and synchronization with code with generator	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:26
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To: PATDOCTC@fr.com,,

From: PAIR_eOfficeAction@uspto.gov
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Request 13/532,546 **Application Number** for June 25, 2012 Filing Date Continued Examination (RCE) David Strober First Named Inventor Transmittal Address to: Art Unit Mail Stop RCE Commissioner for Patents **Examiner Name** P.O. Box 1450 30160-0005001 Alexandria, VA 22313-1450 Attorney Docket Number

This is a Request for Continued Examination (RCE) under 37 CFR 1 .114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8

1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.									
1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).									
	eviously submitted. If a final Office action is outstanding, any amendme nsidered as a submission even if this box is not checked.	nts filed after the fin	al Office action may be						
i	Consider the arguments in the Appeal Brief or Reply Brief previously filed on								
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Suspension of	action on the above-identified application is requested under 37 CFR 1	.103(c) for a							
a p	eriod of months. (Period of suspension shall not exceed 3 months; Fe	e under 37 CFR 1.17(i	i) required)						
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	he RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the Director is hereby authorized to charge the following fees any under		credit any overpayments to						
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i. 📐	RCE fee required under 37 CFR 1.17(e)								
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED									
Signature	/Richard Wong/	Date	January 28, 2016						
Name (Print/Type) Richard Wong Registration No. 73,259									
	CERTIFICATE OF MAILING OR TRANSMISSION								
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Attorney Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: David Strober Art Unit: 2173

Serial No. : 13/532,546 Examiner : Darrin Hope

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT

USING A SWAPPABLE MEDIA PLAYER

MAIL STOP RCE

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

AMENDMENT IN REPLY TO ACTION OF JULY 30, 2015

Please consider the following reply.

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Amendments to the claims

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A machine-implemented method of presenting content on a display device, the method comprising:

receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player;

requesting assignment of a unique identifier for the first session from a switchboard server system;

receiving a unique identifier for the first session from the switchboard server system; displaying the unique identifier in the first session;

causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device;

receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier;

in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player;

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playing the particular content in the first session using the specified media player; causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving in the display host a second message from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier; and

executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player.

- 2. (Original) The method of claim 1 wherein the unique identifier comprises a QR code.
- 3. (Canceled)
- 4. (Previously Presented) The method of claim 1 further including:

receiving in the display host a third message from the switchboard server system instructing that particular second content is to be played in the first session using a specified second media player;

in response to the third message, retrieving and loading the second media player; playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

5. (Original) The method of claim 1 wherein the content comprises video.

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6. (Original) The method of claim 1 wherein the content comprises streaming media.

- 7. (Original) The method of claim 1 wherein the content comprises visual content.
- 8. (Original) The method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier.
- 9. (Currently Amended) The method of claim 1 further including:
 receiving, in the display host, a communication from a second display device;
 opening a second session using a second instance of the swappable media player while
 the first instance of the swappable media player is open;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session; and causing the second unique identifier to be mirrored onto a virtual client residing on the second display device.

10. (Previously Presented) The method of claim 9 further including:

receiving in the display host a third message indicating that particular second content is to be played in the second session using a specified second media player;

in response to the third message, retrieving and loading the second media player;

playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

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11. (Original) The method of claim 10 wherein the first and second sessions at least partially overlap in time with one another.

- 12. (Original) The method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.
- 13. (Currently Amended) A system for presenting content comprising:

a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; and

a switchboard server system,

wherein the display host is operable to perform operations including:

receiving a communication from a display device storing a virtual client;

in response to receiving the communication, opening a first session using a first instance of the swappable media player;

receiving a unique identifier for the first session from the switchboard server system;

displaying the unique identifier in the first session;

causing the image of the unique identifier to be mirrored onto the virtual client residing on the display device

receiving a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier;

in response to receiving the first message, retrieving and the specified media player using the first instance of the swappable media player;

playing the particular content in the first session using the specified media player;

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causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving a second message from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internet-enabled personal computing device and containing the unique identifier; and

executing the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device,

operations including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player.

14. (Canceled)

15. (Previously Presented) The system of claim 13 wherein the display host is further operable to perform operations including:

receiving a third message from the switchboard server system indicating that particular second content is to be played in the first session using a specified second media player;

in response to receiving the third message, retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the first session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

16. (Previously Presented) The system of claim 13 wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:

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receiving a communication from the second display device;

in response to receiving the communication from the second display device, opening a second session using a second instance of the swappable media player;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session;

causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device.

receiving a fourth message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player;

retrieving the second media player from a content provider and loading the second media player;

playing the particular second content in the second session using the specified second media player; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device.

17 - 25. (Canceled)

- 26. (New) The method of claim 1, wherein converting the particular play control command into the corresponding code comprises selecting the corresponding code from among a plurality of specific codes, each of which represents a corresponding playback control command for a respective media player.
- 27. (New) The method of claim 1, wherein converting the particular play control command into the corresponding code comprises:

determining an identity of the specific media player;

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loading an appropriate set of protocols or application programming interfaces from a library based on the identity of the specific media player; and

converting the command into the corresponding code based on the set of protocols or application programming interfaces.

28. (New) A machine-implemented method of presenting content on a display device, the method comprising:

receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player;

requesting assignment of a unique identifier for the first session from a switchboard server system;

receiving a unique identifier for the first session from the switchboard server system; displaying the unique identifier in the first session;

causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device;

receiving, in the switchboard server system, a first message originating in a handheld Internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises the unique identifier and a first command instructing that particular content be played in the first session using a specified one of the media players,

converting the first command into a corresponding first code to control playing of the particular content on the specified media player;

receiving in the display host the first code and information corresponding to the unique identifier from the switchboard server system;

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in response to receiving the first code and the unique identifier, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player;

playing the particular content in the first session using the specified media player; causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving, in the switchboard server system, a second message originating in the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier and a second command instructing that a particular play control command be executed with respect to the particular content being played in the first session,

converting the second command into a corresponding second code to control playing of the particular content on the specified media player;

receiving in the display host a the second code and information corresponding to the unique identifier from the switchboard server system; and

executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

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REMARKS

Claims 1-2, 4-13, 15-16, and 26-28 are presented for further examination.

Claim Rejections – 35 USC § 103

Claims 1, 4-11, 13, and 15-16 were rejected under pre-AIA 35 U.S.C. § 103(a) as allegedly being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) (hereinafter "Fok Ah Chuen") in view of Malik (US 2007/0155506 A1) (hereinafter "Malik").

Claims 2 and 12 were rejected under pre-AIA 35 U.S.C. § 103(a) as allegedly being unpatentable over Fok Ah Chuen in view of Malik, and further in view of Sukeda et al. (US 2009/0172780 A1) (hereinafter "Sukeda").

Reconsideration is respectfully in view of the foregoing amendments and the following remarks.

Claim 1 has been amended to recite "the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player." Support for the amendments can be found, for example, in par. [0029] of the specification as originally filed. No new matter has been added.

Fok Ah Chuen, Malik, and Sukeda do not disclose or suggest such a feature, either alone or in any combination. Fok Ah Chuen discloses a "method for establishing a Thin Client session between a Thin Client device ... and a Thin Client server" (see Abstract). Malik discloses implementations that "enable an interactive game" (see Abstract). Sukeda discloses implementations "for displaying various contents such as moving images, still images, and texts" (see Abstract). However, none of these references discloses or suggests converting commands at all, much less converting a play control command into a corresponding code to control playing of content on a particular media player. As such, Fok Ah Chuen, Malik, and Sukeda do not disclose or suggest "the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player," as recited in the amended claim.

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Therefore, in view of the foregoing amendments and remarks, the rejection of claim 1 should be withdrawn and the claim allowed. Claims 2 and 4-12 depend either directly or indirectly from claim 1, and for at least the same reasons, the rejection of claims 2 and 4-12 also should be withdrawn and the claims allowed.

Claim 13 has been amended to recite similar limitations as claim 1, and for at least the same reasons as discussed above, the rejection of claim 13 also should be withdrawn and the claim allowed. Claims 15 and 16 depend from claim 13 and for at least the same reasons, the rejection of claims 15 and 16 also should be withdrawn and the claims allowed.

Claim 9 depends from claim 1, and should be allowed for at least the same reasons as discussed above. Claim 9 has also been amended to recite:

9. The method of claim 1 further including: receiving, in the display host, a communication from a second display device;

opening a second session using a second instance of the swappable media player while the first instance of the swappable media player is open;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session; and

causing the second unique identifier to be mirrored onto a virtual client residing on the second display device.

That is, a <u>second</u> session is opened using a <u>second</u> instance of a swappable media player <u>while the first instance of the swappable media player is open</u>, and a <u>second</u> unique identifier is

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displayed in the <u>second</u> session. Support for the amendments can be found, for example, in par. [0017] of the specification as originally filed. No new matter has been added.

In the present Office Action, the Office contends that Malik teaches the features of previously presented claim 9. However, Malik does not disclose or suggest that a <u>second</u> session is opened using a <u>second</u> instance of a swappable media player <u>while the first instance of the swappable media player is open</u>, and that a <u>second</u> unique identifier is displayed in the <u>second</u> session. Indeed, Malik merely discloses that a system that "provides a unique identifier associated with an instance of the interactive game" (see par. [0015]). However, Malik does not disclose or suggest opening multiple instances of the "interactive game" simultaneously and mirroring a different unique identifier on each of the instances. Therefore, Malik does not disclose or suggest each of the features of amended claim 9.

Therefore, for at least this additional reason, claim 9 should be allowed.

New Claims

Newly presented claims 26 and 27 depend from claim 1, and should be allowable at least for the reasons discussed above. Furthermore, these claims recite additional language that renders them independently patentable. Support for the features recited in these claims can be found, for example, in par. [0029] of the specification as originally filed.

Newly presented claim 28 recites similar subject matter as claim 1, and also should be allowable at least for the reasons discussed above. For example, claim 28 recites "receiving ... a first message ... compris[ing] the unique identifier and a first command instructing that particular content be played in the first session using a specified one of the media players," and "converting the first command into a corresponding first code to control playing of the particular content on the specified media player." Claim 28 also recites "receiving ... a second message ... compris[ing] the unique identifier and a second command instructing that a particular play control command be executed with respect to the particular content being played in the first session," and "converting the second command into a corresponding second code to control playing of the particular content on the specified media player." Support for the features recited in claim 28 can be found, for example, in par. [0029] of the specification as originally filed.

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Conclusion

The Applicant submits that all of the claims are in condition for allowance and request entry of the proposed amendments and confirmation of allowance by the Examiner. It is believed that all of the pending issues have been addressed. However, the absence of a reply to a specific rejection, issue, or comment does not signify applicants' agreement. In addition, because the arguments made above may not be exhaustive, there may be additional reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Further, the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

The fee for a three-month extension of time is being paid with this reply on the Electronic Filing System. Apply those fees and any other necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: January 28, 2016 /Richard Wong/

Richard Wong Reg. No. 73,259

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Electronic Patent Application Fee Transmittal								
Application Number:	13	532546						
Filing Date:	25-	Jun-2012						
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER							
First Named Inventor/Applicant Name:	nventor/Applicant Name: David Strober							
Filer:	Filer: Richard Wong/Maryann White							
Attorney Docket Number: 30160-0005001								
Filed as Small Entity								
Filing Fees for Utility under 35 USC 111(a)								
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)			
Basic Filing:								
Pages:								
Claims:								
Miscellaneous-Filing:								
Petition:								
Patent-Appeals-and-Interference:	Patent-Appeals-and-Interference:							
Post-Allowance-and-Post-Issuance:								
Extension-of-Time:								

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Extension - 3 months with \$0 paid	2253	1	700	700		
Miscellaneous:						
Request for Continued Examination	2801	1	600	600		
Total in USD (\$) 1300						

Electronic Ack	knowledgement Receipt
EFS ID:	24759290
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International Application Number:	
Confirmation Number:	9012
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER
First Named Inventor/Applicant Name:	David Strober
Customer Number:	26211
Filer:	Richard Wong/Maryann White
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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 CFR 1.17 (Patent application and reexamination processing fees)

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Warnings: Information:

File Listing	j:						
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)		
1	Request for Continued Examination	30160-0005001RCE.pdf	141618	no	1		
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	Claims		2	9			
	Applicant Arguments/Remarks	Made in an Amendment	10		13		
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National Stage of an International Application under 35 U.S.C. 371

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11) Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

P	PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Applicatio	n or Docket Nur 3/532,546		Filing Date 06/25/2012	To be Mailed
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	BASIC FEE (37 CFR 1.16(a), (b), o	or (c))	N	A		N/A		N/A	١		
Ш	SEARCH FEE (37 CFR 1.16(k), (i), o	or (m))	N	A		N/A		N/A	١.		
	EXAMINATION FE (37 CFR 1.16(o), (p), o		N	A		N/A		N/A	١		
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		(Column	1)		APPLICATI	ON AS AMEN		ART II			
AMENDMENT	01/28/2016	CLAIMS REMAINING AFTER AMENDMENT		n F	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TRA	RATE (\$)		A DDITI(ONAL FEE (\$)
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** If *** I	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". * If 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, Mexandria, VA 22313-1450.

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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	13/532,546	06/25/2012	David Strober	30160-0005001	9012	
		7590 07/15/201 ARDSON P.C. (NY)	EXAMINER			
	P.O. BOX 1022	` '	HOPE, DARRIN			
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				2173		
				NOTIFICATION DATE	DELIVERY MODE	
				07/15/2016	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):

PATDOCTC@fr.com

		Applicati 13/532,5		Applicant(s) STROBER, DAVID							
	Office Action Summary	Examine DARRIN		Art Unit 2173	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 SHOTHIS CO - Exter after - If NC - Failu Any r	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											
	Responsive to communication(s) filed on $\underline{0}$ A declaration(s)/affidavit(s) under 37 CFR		s/were filed on								
2a)	This action is FINAL . 2b) ☑ This action is non-final.										
3)	An election was made by the applicant in re	esponse to a r	restriction requirement s	set forth durin	g the interview on						
4)	; the restriction requirement and election have been incorporated into this action. 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 <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.										
Dispositi	on of Claims*										
5) Claim(s) 1,2,4-13,15,16 and 26-28 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) 1,2,4-13,15,16 and 26-28 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 PHfeedback@uspto.gov .											
Application Papers 10) ☐ The specification is objected to by the Examiner. 11) ☒ The drawing(s) filed on 25 June 2012 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.											
Attachmen	• •		_								
2) Inform	e of References Cited (PTO-892) mation Disclosure Statement(s) (PTO/SB/08a and/or P r No(s)/Mail Date	TO/SB/08b)	3) Interview Summary Paper No(s)/Mail Da 4) Other:								

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-13)

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DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions. This Office Action is responsive to the communications filed on 28 January 2016. Claims 1-2, 4-13, 15-16, and 26-28 are pending.

Claim Rejections - 35 USC § 103

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 negatived by the manner in which the invention was made.

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.
- 2. Claims 1, 4-8, 13, 15, 16, 26, 27, and 28 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US 2007/0155506 A1), and further in view of Mahajan et al. (Hereinafter, Mahajan, US 2009/0248802 A1).

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3. **Per claim 1**, Chuen discloses a machine-implemented method of presenting content on a display device (Abstract), the method comprising:

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receiving, in a display host (e.g., Thin Client Application Server 4), a communication (e.g., Step 20 as shown in Fig. 3 'SDP OFFER(THIN CLIENT SESSION PARAMETERS') from a display device (e.g., Thin Client Device 2; paragraphs [0131], "The UE 2 connects through an IP access network for communicating with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "; paragraph [0132], "At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment."), wherein the display host is operable to execute multiple instances of a browser (Abstract; e.g., thin client viewer as shown in Fig 2; paragraph [0018]; paragraph [0022]; paragraph [0046]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependent upon the area A such as the area B is illustrated. "),

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wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer,...; paragraph [0074]; paragraph [0082]) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

- receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], *At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.*);
- in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player(e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media
 player(paragraph [0153]);

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 causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device (Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).

- receiving in the display host a second message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the second message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);
- executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device(Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ").

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4. Chuen does not expressly disclose:

 requesting assignment of a unique identifier for the first session from a switchboard server system;

- receiving a unique identifier for the first session from the switchboard server system;
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device; and
- the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player.

Malik discloses:

- requesting assignment of a unique identifier for the first session from a switchboard server system(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game... "; paragraph [0005], "...The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier.... ");
- receiving a unique identifier for the first session from the switchboard server system (e.g., Step 420 'PROVIDE A UNIQUE IDENTIFIER' as shown in Fig. 4'; paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In

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response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ... "; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140... "; Examiner's Note: The Examiner reasonably and broadly interprets the game server to be a switchboard server.);

- displaying the unique identifier in the first session (paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... "); and
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 6. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more display

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devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

- 7. Mahajan discloses the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player (e.g., method 500 as shown in Fig. 5; paragraph [0014]; paragraph [0034]; paragraph [0037] paragraph [0050]; paragraphs [0059-0063]).
- 8. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Mahajan system and method for managing multimedia operations in remote sessions in the Chuen-Malik thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to manage multimedia operations in remote sessions. This method for improving the thin client-server device of Chuen and Malik was within the ordinary ability of one of ordinary skill in the art based on the teachings of Mahajan.
- 10. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, and Mahajan to obtain the invention as specified in claim 1.
- 11. **Per claim 4,** Chuen, Malik, and Mahajan disclose the method of claim 3 further including:

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• receiving in the display host a third message from the switchboard server system instructing that particular second content is to be played in the first session using a specified second media player (Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ");

- in response to the third message, retrieving and loading the second media player
 (Chuen, paragraphs [0149-0152]);
- playing the particular second content in the first session using the specified second media player(Chuen, paragraph [0153]); and
- causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).
- 12. **Per claim 5**, Chuen, Malik, and Mahajan disclose the method of claim 1 wherein the content comprises video (Chuen, paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video

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transfer, audio transfer, . . .) pertaining to a session of remote desktop control."; paragraph [0019]; Malik, paragraph [0005]).

- **13. Per claim 6**, Chuen, Malik, and Mahajan disclose the method of claim 1 wherein the content comprises streaming media (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 12).
- **14. Per claim 7**, Chuen, Malik, and Mahajan disclose the method of claim 1 wherein the content comprises visual content (Chuen, paragraphs [0015], [0017], [0018], [0026], [0032]; Malik, See claim 1).
- 15. **Per claim 8**, Chuen, Malik, and Mahajan disclose the method of claim 1 further including contacting the switchboard server system to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the previously assigned unique identifier (Chuen, paragraph [0034]).
 - playing the particular content in the first session using the specified media player
 (Chuen, paragraph [0139]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device (Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e., game content 220).
- 16. **Per claim 13**. Chuen discloses a system for presenting content comprising:

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a display host (e.g., thin client application server 4) operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]); and

- a switchboard server system(e.g., thin client application server 4), wherein the display host is operable to perform operations including:
- receiving a communication from a display device(e.g., step 20) storing a virtual
 client (e.g., thin client device 2; paragraph [0018]);
- receiving, in a display host (e.g., Thin Client Application Server 4), a communication from a display device (e.g., Thin Client Device 2; paragraphs [0131], "The UE 2 connects through an IP access network for communicating with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or

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Circuit Switched connection). "), wherein the display host is operable to execute multiple instances of a browser (e.g., thin client viewer as shown in Fig 2; paragraph [0022]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependant upon the area A such as the area B is illustrated. "), wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer, . . .) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

• opening a first session using a first instance of the swappable media player (paragraphs [0007, [0012], [0016], [0018]; paragraph [0133], "Upon reception of said SDP offer, the Desktop 4 determines that the UE 2 wishes to establish a thin client connection using RFB protocol, determines that RFB protocol and proposed attributes are acceptable based on the environment where the UE 2 is located and, at step 22, sends back a SDP Answer Message indicating the RFB and attributes are selected.");

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receiving in the display host a first message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], *At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.*);

- in response to receiving the first message, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player(e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media player(paragraph [0153);
- causing a presentation of the particular content to be mirrored onto the virtual
 client residing on the display device(Fig. 4 illustrates causing a presentation of
 the second content to be mirrored onto the virtual client residing on the display
 device where content from one device is redirected for display on another
 device.).
- receiving in the display host a second message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the second message is sent by the

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switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

- executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device(Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. "); but does not expressly disclose:
- receiving a unique identifier for the first session from the switchboard server system;
- displaying the unique identifier in the first session;
- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device,
- converting the first command into a corresponding first code to control playing of the particular content on the specified media player;

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 operations including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player.

17. Malik discloses:

- requesting assignment of a unique identifier for the first session from a
 switchboard server system (Abstract, "...A game server, in response to a user
 request, provides a unique identifier associated with an instance of the interactive
 game..."; paragraph [0015]);
- receiving a unique identifier (e.g., unique identifier 115 as shown in Fig. 2) for the first session from the switchboard server system (paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140.... ");
- displaying the unique identifier in the first session (paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique

identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... ");

- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 18. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin clientserver device that could make it easier to register the connection of one or more display devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.
- Mahajan discloses operations including converting the particular play control 19. command contained in the second message into a corresponding code to control playing of the content on the particular media player (e.g., method 500 as shown in Fig. 5; paragraph [0014]; paragraph [0034]; paragraph [0037] paragraph [0050]; paragraphs [0059-0063]).
- At the time of the invention, it would have been obvious to a person of ordinary 20. skill in the art to use the Mahajan system and method for managing multimedia operations in remote sessions in the Chuen-Malik thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server

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device that could make it easier to manage multimedia operations in remote sessions.

This method for improving the thin client-server device of Chuen and Malik was within the ordinary ability of one of ordinary skill in the art based on the teachings of Mahajan.

21.

- 22. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, and Mahajan to obtain the invention as specified in claim 13.
- 23. **Per claim 15**, Chuen, Malik, and Mahajan disclose the system of claim 14 wherein the display host is further operable to perform operations including:
 - receiving a second message from the switchboard server system indicating that
 particular second content is to be played in the first session using a specified
 second media player(Malik, paragraph [0033]);
 - retrieving the second media player from a content provider and loading the second media player(Malik, paragraph [0034]);
 - playing the particular second content in the first session using the specified second media player (Chuen, paragraph [0139]); and
 - causing a presentation of the second content to be mirrored onto the virtual client residing on the display device(Chuen, paragraphs [0141-0142]; Fig. 4 illustrate establishing a connection so that content displayed on client device 2 can be redirected for display an a television 40.;Malik, Fig. 2 illustrates causing a presentation of the content to be mirrored onto the virtual client residing on the display device, i.e, game content 220).

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24. Per claim 16, Chuen, Malik, and Mahajan disclose the system of claim 13 wherein the system includes a second display device storing a virtual client, wherein the display host is further operable to perform operations including:

- receiving a communication from the second display device(Malik, paragraph [0033]);
- in response to receiving the communication from the second display device, opening a second session using a second instance of the swappable media player(Malik, paragraph [0034]);
- requesting from the switchboard server system assignment of a second unique identifier for the second session; receiving a second unique identifier for the second session from the switchboard server system; displaying the second unique identifier in the second session(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);
- causing the image of the second unique identifier to be mirrored onto the virtual client residing on the second display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170);
- receiving a fourth message from the switchboard server system indicating that
 particular second content is to be played in the second session using a specified
 second media player(Chuen, e.g., Step 20 as shown in Fig. 2; paragraphs
 [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising

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Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

- retrieving the second media player from a content provider and loading the second media player(Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular second content in the second session using the specified second media player(Chuen, paragraph [0139]); and
- causing a presentation of the second content to be mirrored onto the virtual client residing on the second display device(Malik, paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 25. **Per claim 26**, Chuen, Malik, and Mahajan disclose the method of claim 1, wherein converting the particular play control command into the corresponding code comprises selecting the corresponding code from among a plurality of specific codes, each of which represents a corresponding playback control command for a respective media player (Mahajan, paragraph [0014] "... The client can convert the generic commands into commands that are specific to a platform supported by the client. The client's platform can then process the commands to achieve the desired effect (i.e., play, pause, stop, etc.) on the client device. ").
- **26. Per claim 27**, Chuen, Malik, and Mahajan disclose the method of claim 1, wherein converting the particular play control command into the corresponding code comprises:

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determining an identity of the specific media player (Mahajan, paragraph [0014];
 paragraph [0036]);

- loading an appropriate set of protocols or application programming interfaces from a library based on the identity of the specific media player(Mahajan, paragraph [0037]); and
- converting the command into the corresponding code based on the set of protocols or application programming interfaces(Mahajan, paragraphs [0038-0041]).
- 27. **Per claim 28,** Chuen discloses a machine-implemented method of presenting content on a display device (Abstract), the method comprising:
 - receiving, in a display host (e.g., Thin Client Application Server 4), a communication (e.g., Step 20 as shown in Fig. 3 'SDP OFFER(THIN CLIENT SESSION PARAMETERS') from a display device (e.g., Thin Client Device 2; paragraphs [0131], "The UE 2 connects through an IP access network for communicating with the remote desktop PC 4 and initiates a SDP Offer/Answer containing thin client parameters including Graphics encoding scheme, the transport settings (RFB (remote framebuffer), RDP (Remote Desktop Protocol), ICA (Independent Computing Architecture protocol), or pixels/RTP (Real-time Transport Protocol), IP Addresses and port number and radio bearer settings (Packet switched or Circuit Switched connection). "; paragraph [0132], "At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client

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session attributes and further parameters required for the appropriate SIP session establishment."), wherein the display host is operable to execute multiple instances of a browser (Abstract; e.g., thin client viewer as shown in Fig. 2; paragraph [0018]; paragraph [0022]; paragraph [0046]) each of which operates as a swappable media player(paragraph [00127], "FIG. 2 illustrates a thin client viewer rendering a remote application display (remote desktop) consisting of several areas that can be dynamically adapted. The Area A is the background of the remote desktop that is graphically updated based on RFB protocol. The other areas are dependent upon the area A such as the area B is illustrated. "), wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content (Abstract; paragraph [0014], "An exemplary object of the present invention is to add remote desktop control to existing functionalities in order to negotiate the media within a SIP session and allow adaptive media transfer (i.e. video transfer, audio transfer,...; paragraph [0074]; paragraph [0082]) pertaining to a session of remote desktop control. "; paragraphs [0019], [0026], [0046], [0050]);

- in response to receiving the communication from the display device, opening a
 first session using a first instance of the swappable media player (e.g., Steps 2228 as shown in Fig. 3; paragraph [0133-0138]);
- playing the particular content in the first session using the specified media player(paragraph [0153]);

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receiving, in the switchboard server system, a second message originating in the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier and a second command instructing that a particular play control command be executed with respect to the particular content being played in the first session (e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

- causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device (Fig. 4 illustrates causing a presentation of the second content to be mirrored onto the virtual client residing on the display device where content from one device is redirected for display on another device.).
- receiving in the display host a second message from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the second message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier(e.g., Step 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the Desktop 4 the SDP offer comprising Thin client session attributes and further parameters required for the appropriate SIP session establishment.);

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• executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device(Chuen, paragraph [0147], "The Desktop 4 receives the message, interprets the message and prepares to redirect the media to the TV 40. No screen updates corresponding to the area where the video output is located is sent to the UE 2. This requires the Answer message to include an indication as to whether the output stream still is streamed to the mobile device or not. ").

- 28. Chuen does not expressly disclose:
 - requesting assignment of a unique identifier for the first session from a switchboard server system;
 - receiving a unique identifier for the first session from the switchboard server system;
 - displaying the unique identifier in the first session;
 - causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device;
 - converting the first command into a corresponding first code to control playing of the particular content on the specified media player; and
 - converting the second command into a corresponding second code to control playing of the particular content on the specified media player.
 Malik discloses:

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• requesting ass ignment of a unique identifier for the first session from a switchboard server system(Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game... "; paragraph [0005], "...The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier.... ");

- receiving a unique identifier for the first session from the switchboard server system (e.g., Step 420 'PROVIDE A UNIQUE IDENTIFIER' as shown in Fig. 4'; paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140.... "; Examiner's Note: The Examiner reasonably and broadly interprets the game server to be a switchboard server.);
- displaying the unique identifier in the first session (paragraph [0035], "... As noted by the encircled number "5," the host and local players can observe unique

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identifier 115 in the video information presented in display 134 and/or hear a message that includes the unique identifier... "); and

- causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device (paragraph [0036]; Fig. 2 illustrates displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).
- 29. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Malik unique identifier in Chuen's thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to register the connection of one or more display devices to a display host. This method for improving the thin client-server device of Chuen was within the ordinary ability of one of ordinary skill in the art based on the teachings of Malik.

30. Mahajan discloses:

- converting the first command into a corresponding first code to control playing of
 the particular content on the specified media player(e.g., method 500 as shown
 in Fig. 5; paragraph [0014]; paragraph [0034]; paragraph [0037] paragraph
 [0050]; paragraphs [0059-0063]); and
- converting the second command into a corresponding second code to control
 playing of the particular content on the specified media player(e.g., method 500
 as shown in Fig. 5; paragraph [0014]; paragraph [0034]; paragraph [0037]
 paragraph [0050]; paragraphs [0059-0063]).

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31. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Mahajan system and method for managing multimedia operations in remote sessions in the Chuen-Malik thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could make it easier to manage multimedia operations in remote sessions. This method for improving the thin client-server device of Chuen and Malik was within the ordinary ability of one of ordinary skill in the art based on the teachings of Mahajan.

- 33. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, and Mahajan to obtain the invention as specified in claim 28.
- 34. **Per claim 28**, Chuen discloses a machine-implemented method of presenting content on a display device (Abstract)the method comprising: receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player; requesting assignment of a unique identifier for the first session from a switchboard server system;

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receiving a unique identifier for the first session from the switchboard server system; displaying the unique identifier in the first session;

causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device;

receiving, in the switchboard server system, a first message originating in a handheld Internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises the unique identifier and a first command instructing that particular content be played in the first session using a specified one of the media players,

converting the first command into a corresponding first code to control playing of the particular content on the specified media player;

receiving in the display host the first code and information corresponding to the unique identifier from the switchboard server system;

in response to receiving the first code and the unique identifier, retrieving and loading, by the display host, the specified media player using the first instance of the swappable media player;

playing the particular content in the first session using the specified media player; causing a presentation of the particular content to be mirrored onto the virtual client residing on the display device;

receiving, in the switchboard server system, a second message originating in the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier and a second command instructing that a particular play

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control command be executed with respect to the particular content being played in the first session,

converting the second command into a corresponding second code to control playing of the particular content on the specified media player;

receiving in the display host a the second code and information corresponding to the unique identifier from the switchboard server system; and

executing, by the display host, the particular play control command with respect to the particular content being played in the first session that is mirrored onto the virtual client residing on the display device.

35.

36.

- 37. Claims 2 and 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US 2007/0155506 A1), Mahajan et al. (Hereinafter, Mahajan, US 2009/0248802 A1), and further in view of Sukeda et al. (Hereinafter, Sukeda, US 2009/0172780 A1).
- **38. Per claim 2**, Chuen, Malik, and Mahajan disclose the method of claim 1 but do not expressly disclose wherein the unique identifier comprises a QR code.
- **39.** Sukeda discloses wherein the unique identifier comprises a QR code (Sukeda, paragraphs [0052], [0066], [0070], [0077]).
- 40. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen, Malik, and Mahajan thin client-server device to improve the device with reasonable expectation that this would result in

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a thin client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).

- 41. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, Mahajan, and Sukeda to obtain the invention as specified in claim 2.
- 42. **Per claim 12**, Chuen, Malik, and Mahajan disclose the method of claim 1 but do not expressly disclose method of claim 3 wherein the display host retrieves the specified media player from a content provider via the Internet.
- 43. Sukeda discloses wherein the display host retrieves the specified media player from a content provider via the Internet (Abstract; paragraph [0013]).
- 44. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Sukeda QR code in the Chuen, Malik, and Mahajan thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could display a QR code as part of an invitation to remote users to establish a session (See Malik paragraph [0035]).
- 45. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, Mahajan, and Sukeda to obtain the invention as specified in claim 12.
- 46. Claims 9, 10, 11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 A1) in view of Malik (US 2007/0155506 A1), Mahajan et al. (Hereinafter, Mahajan, US 2009/0248802 A1), and further in view of Hu et al. (Hereinafter, Hu, US 8,402,494 B1).

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47. **Per claim 9**, Chuen, Malik, and Mahajan disclose the method of claim 1 further including:

- receiving, in the display host, a communication from a second display device (Malik, paragraph [0033]);
- requesting from the switchboard server system assignment of a second unique identifier for the second session Malik, Abstract, "...A game server, in response to a user request, provides a unique identifier associated with an instance of the interactive game..."; paragraph [0015]);
- receiving a second unique identifier for the second session from the switchboard server system(Malik, paragraph [0005], "The first controller is used to establish a communication session with the game server to communicate a request to start a game. In response, the game server communicates a unique identifier. The game server then registers one or more wireless communication devices that communicate the unique identifier. ..."; paragraph [0006]; paragraph [0007]; paragraph [0015]; paragraphs [0021-0022]; paragraphs [0027], [0029-0030]; paragraph [0035], "As indicated by the encircled number "4," game server 110 in turn initiates a game instance 112, which includes unique identifier 115. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via set top box 140. Unique identifier 115 is transmitted from game server 110 to display 134 via
- causing the second unique identifier to be mirrored onto a virtual client residing
 on the second display device (Malik, paragraph [0036]; Fig. 2 illustrates

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displaying unique identifier 115 on display 130. The unique identifier is forwarded to remote display devices, e.g., 160, 162, and 170).

- **48.** Chuen, Malik, and Mahajan do not expressly disclose opening a second session using a second instance of the swappable media player.
- **49.** Hu discloses opening a second session using a second instance of the swappable media player (Fig. 2; column 5, lines 4-50).
- 50. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the Hu content switching in the Chuen, Malik, and Mahajan thin client-server device to improve the device with reasonable expectation that this would result in a thin client-server device that could allow for seamless switching of content.
- 51. Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Chuen, Malik, Mahajan, and Hu to obtain the invention as specified in claim 9.
- 52. **Per claim 10**, Chuen, Malik, Mahajan, and Hu disclose the method of claim 9 further including:
 - receiving in the display host a third message indicating that particular content is
 to be played in the first session using a specified media player (Chuen, e.g., Step
 20 as shown in Fig. 2; paragraphs [0132], At step 20, the UE 2 transmits to the
 Desktop 4 the SDP offer comprising Thin client session attributes and further
 parameters required for the appropriate SIP session establishment.);

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 in response to the third message, retrieving and loading the specified second media player (Chuen, e.g., Steps 22-28 as shown in Fig. 3; paragraph [0133-0138]);

53. **Per claim 11**, Chuen, Malik, Mahajan, and Hu disclose the method of claim 10 wherein the first and second sessions at least partially overlap in time with one another (Malik, paragraph [0027]; Fig. 2 illustrate wherein the first and second sessions at least partially overlap in time with one another since all the players are forward the unique identifier to play a multiplayer game instance.).

Response to Arguments

- 54. Applicant's arguments filed 28 January 2016 have been fully considered but they are not persuasive.
- 55. On pages 10-11, the Applicant argues that Fok Ah Chuen, Malik, and Sukeda do not disclose or suggest "the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player."
- 56. The Examiner disagrees since Fok Ah Chuen, Malik, and Sukeda were not relied upon to disclose or suggest "the method including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player." Mahajan discloses operations including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular

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media player (e.g., method 500 as shown in Fig. 5; paragraph [0014]; paragraph [0034]; paragraph [0037] paragraph [0050]; paragraphs [0059-0063]).

- 57. Therefore, the rejection of claim 1 cannot be withdrawn and the claim cannot be allowed in view of the new rejection of claim 1. Claims 2 and 4-12 depend either directly or indirectly from claim 1, and for at least the same reasons, the rejection of claims 2 and 4-12 also cannot be withdrawn and the claims cannot be allowed.
- 58. Claim 13 has been amended to recite similar limitations as claim 1, and for at least the same reasons as discussed above, the rejection of claim 13 also cannot be withdrawn and the claim cannot be allowed. Claims 15 and 16 depend from claim 13 and for at least the same reasons, the rejection of claims 15 and 16 also cannot withdrawn and the claims cannot allowed.
- 59. Furthermore, the Applicant argues, with respect to claim 9, that "Malik does not disclose or suggest that a second session is opened using a second instance of a swappable media player while the first instance of the swappable media laver is open, and that a second unique identifier is displayed in the second session.
- 60. The Examiner disagrees since Fok Ah Chuen, Malik, and Sukeda were not relied upon to disclose or suggest that a second session is opened using a second instance of a swappable media player while the first instance of the swappable media laver is open, and that a second unique identifier is displayed in the second session.
- 61. Therefore, the Examiner maintains the rejections.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARRIN HOPE whose telephone number is (571)270-5079. The examiner can normally be reached on M-TH - 7-4:30, F - 7-3:30, Alt. Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu D. Vu can be reached on (571)272-4057. 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.

/DARRIN HOPE/ Examiner, Art Unit 2173

/TADEESE HAILU/

Primary Examiner, Art Unit 2173

Application/Control No. Applicant(s)/Patent Under Reexamination 13/532,546 STROBER, DAVID Notice of References Cited Examiner Art Unit Page 1 of 1 2173 **DARRIN HOPE U.S. PATENT DOCUMENTS** Document Number Date Name **CPC Classification US Classification** Country Code-Number-Kind Code MM-YYYY 03-2013 H04N5/268 709/230 US-8,402,494 B1 Hu; Ningning Α US-2009/0248802 A1 10-2009 Mahajan; Rajneesh G06F9/4445 709/204 В US-С D US-US-Ε F US-US-G US-Н US-US-US-Κ US-US-М FOREIGN PATENT DOCUMENTS Document Number Date Name **CPC Classification** Country MM-YYYY Country Code-Number-Kind Code Ν 0 Р Q R S Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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Notice of References Cited

Part of Paper No. 20160629

	Application/Control No.	Applicant(s)/Patent Under Reexamination				
Index of Claims	13532546	STROBER, DAVID				
	Examiner	Art Unit				
	DARRIN HOPE	2173				

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EAST Search History

EAST Search History (Prior Art)

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S26	410	S14 and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:14
S27	2	S14 and "unique identifier" same television	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:14
S28	47	S14 and "unique identifier" same display	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:15
S29	7	S14 and "unique identifier" same display same host	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:15
S30	0	S14 and humpelmann	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:16
S31	0	S14 and humpelman	US-	OR	OFF	2015/07/24

	***************************************		PGPUB; USPAT			07:16
S32	42	S14 and hump\$9	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:16
S33	2	S14 and hump\$9.inv.	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:17
S34	167	S14 and "thin client"	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:17
S35	3	S14 and "thin client" same identifier	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:18
S36	0	S14 and "thin client" same identifier same television	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:19
S37	9	S14 and identifier same television same unique	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:19
S38	9	S14 and QR	US- PGPUB; USPAT	OR	OFF	2015/07/24 07:20
S39	25	S14 and google.as.	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:02
S40	0	S14 and hromecast	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:05
S41	37	chromecast	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:05
S42	12	chromecast and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:07
S43	41	S1 and "unique identifier"	US- PGPUB; USPAT	OR	OFF	2015/07/24 08:07
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S65	43	S62 and callback	US- PGPUB; USPAT	OR	OFF	2015/07/25 13:52
S66	1	("20070155506").pn.	US- PGPUB; USPAT	OR	OFF	2015/07/25 13:59
S67	1	("20070155506").pn. and "160"	US- PGPUB; USPAT	OR	OFF	2015/07/25 14:00
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S83	2500	S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:16
S84	54	("20020120666" "20030193520" "20070202923" "2008008439" "20080028037" "20100205628" "7424718" "20050034151" "20090108057" "20030004804" "20060083194" "20110231265" "7769827" "20050144305" "20060098624" "20060101098" "20070094408" "20080267369" "20110030020" "20110060998" "7058356" "20090172780" "20120102209" "20020133518" "20120102209" "20020133518" "20110138354" "20110214148" "20110296465" "7330875" "201100027974" "2011031607" "20030023488" "20110214148" "20110296465" "73087580" "20100281042" "20110090898" "20110107227" "20070155506" "20020198778" "20060203758" "20080270881" "20090228919" "0783505" "20070288715" "20030018885" "20040088728" "20080155600" "20100265939" "20110231566" "7440972"	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:16

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S86	0	S83 and thin\$1client with display\$3 with controls	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:20
S87	0	S83 and thin\$1client with display\$3 with commands	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:20
S88	5	S83 and thin\$1client with media with player	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:21
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S90	5	S83 and thin\$1client same media same player	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:22
S91	21	S83 and thin\$1client same player	US- PGPUB; USPAT	OR	OFF	2016/06/29 08:23
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S101	1	("20120102209").PN. and set	US- PGPUB; USPAT	OR	OFF	2016/06/29 10:03
S102	1	("20120102209").PN. and encod\$3	US- PGPUB; USPAT	OR	OFF	2016/06/29 10:03
S103	2	"US 20130031478"	US- PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/06/29 13:55
S104	0	AUDI OBOX. as.	US- PGPUB; USPAT	OR	OFF	2016/06/29 14:06
S105	5	AUDI OBOX	US- PGPUB; USPAT	OR	OFF	2016/06/29 14:06
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Search Notes

Application/Control No.	Applicant(s)/Patent Under Reexamination
13532546	STROBER, DAVID
Examiner	Art Unit
DARRIN HOPE	2173

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/01	11/3/2014	DH

CPC COMBINATION SETS - SEARCHED				
Symbol	Date	Examiner		

US CLASSIFICATION SEARCHED					
Class	Subclass	Date	Examiner		
715/716		11/3/2014	DH		

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	7/25/2015	DH
EAST	7/8/2016	DH

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

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Jul 15, 2016 05:39:54 AM

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UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Attorney's Docket No.: 30160-0005001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: David Strober Art Unit: 2173

Serial No. : 13/532,546 Examiner : Darrin Hope

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Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT

USING A SWAPPABLE MEDIA PLAYER

MAIL STOP AMENDMENT

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INFORMATION DISCLOSURE STATEMENT

Please consider the references listed on the enclosed PTO 1449 Disclosure Form. Copies of the listed foreign patent documents are enclosed.

A copy of a communication from a foreign patent office in a related foreign application is also enclosed (listed as item 4) and indicates the relevance of the other listed foreign-language references.

This statement is being filed after a first action on the merits, but before receipt of a final action or a notice of allowance. A late submission fee in the amount of \$90, specified by 37 CFR §1.17(p), is being paid with this statement. Apply any necessary charges or credits to deposit account 06-1050, referencing the above attorney docket number.

Please contact the undersigned if there are any questions regarding this Statement.

Respectfully submitted,

Date: July 28, 2016	/Samuel Borodach/
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Sheet	1	of	1

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant David Strober	
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U.S. Patent Documents							
Examiner	Desig.	Document	Publication				Filing Date
Initial	D	Number	Date	Patentee	Class	Subclass	If Appropriate

Foreign Patent Documents or Published Foreign Patent Applications								
				Country			Translation	1
				or				
Examiner	Desig.	Document	Publication	Patent				
Initial	ID	Number	Date	Office	Class	Subclass	Yes	No
							See English	
	1.	2006-525771 A		JP			counterpart in	
							Desig. ID No. 2	
	2.	2004100500A2		WO				
	3.	2004-356695 A		JР			English Abstract	

	Other Documents (include Author, Title, Date, and Place of Publication)			
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Initial	D	Document		
	4.	Japanese Patent Office, Examination Report for JP Patent App. No. 2014-506460, dated June 28, 2016 (6 pages) (and English Translation)		

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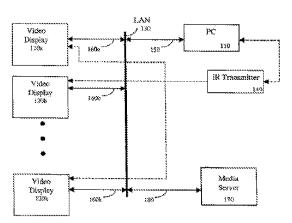
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(54) Title: SYSTEM AND METHOD FOR COMMUNICATING WITH A DISPLAY DEVICE VIA A NETWORK

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(57) Abstract: A system (100) and corresponding methods are provided for enabling communication with an electronic apparatus via a network. The system comprises: a first device (140) for transmitting a communication comprising identification parameters associated with a second device (110), wherein the communication is compatible with a communication protocol of a first electronic apparatus (120a, b ...k); a first electronic apparatus for communicating with the second device, wherein first electronic apparatus comprises a first interface for wirelessly communicating with the first device and a second interface for communicating with the second device via a network (130); and a second device for communicating with the first electronic apparatus, with the second device communicating the first electronic apparatus via the network.

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SYSTEM AND METHOD FOR COMMUNICATING WITH A DISPLAY DEVICE VIA A NETWORK

FIELD OF THE INVENTION

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The present invention relates to communicating with an electronic apparatus and, more particularly, to a system and method for communicating with a video display device via a network.

BACKGROUND OF THE INVENTION

Electronic appliances such as video display devices may be controlled via a computer through a network connection. Adjustments such as changing the volume or color alignment are no longer performed by adjusting a knob on a video display device such as a television rather they are performed digitally by interfacing with a menu on the video display device's screen or via an infrared remote. The introduction of computer controlled video display devices has enhanced the features and capabilities of modern video display devices. For example, computer controlled video display devices can be electronically diagnosed for service or repair, subjected to automated testing and controlled to perform a variety of functions. In addition, these video display devices can be connected together via a local area network (LAN) using networking protocols such as Ethernet, token ring, asynchronous transfer mode (ATM), etc.

In order to perform a desired function such as the servicing or testing a computer controllable video display device, a number of communication techniques have been developed by video display device manufacturers and service providers to realize such operations. These techniques typically require a computer and an infrared transmitter, which are used by a service technician, to communicate with a computer controlled video display device. The communication channel between the computer and the video display device sometimes takes place over an Ethernet connection. For security reasons, however, the computer controlled video display device will typically only allow access to a computer that is compatible with the video display device, thereby, preventing an un-authorized user from gaining access to the video display device.

In order to communicate with a video display device via a computer, a service technician having knowledge of the video display device's IP address and port reconfigures the IP address and port of their computer. This process can be somewhat prohibitive due to a lack of networking knowledge by the service technician and the proliferation of operating systems that preclude the ability to automate the configuration and restoration of the computer's IP address. In addition, current

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communication techniques prevent a service technician from communicating with more than one video display device at a time over a network.

Accordingly, there is a need for a system and method of communicating with one or more electronic appliances, such as a video display device, via a network where a service technician does not need extensive knowledge of networking environments. SUMMARY OF THE INVENTION

In one embodiment of the present invention, a method for communicating with an electronic apparatus via a network is presented. The method comprises the steps of: receiving a communication comprising identification parameters associated with a computer, wherein the communication is compatible with a communication protocol of a first electronic apparatus; transmitting a request to establish communication with the computer associated with the received identification parameters, wherein the request is transmitted via a network; receiving a response to the request, wherein the response attempts to establish communication between the computer and the first electronic apparatus, wherein the response is transmitted via the network; and validating the response to the request to ensure that the computer to which the request to establish communication was transmitted is the computer associated with the received identification parameters. A system for implementing the described method is also disclosed.

In another embodiment of the present invention, a method for communicating with a media server for receiving media objects based on the properties of a display device is presented. The method determines the type of display technology used for a display device whereby the display device receives a media object that is optimized for visual playback for that display device. Display devices with different display technologies receive different media objects generated from the same source material. BRIEF DESCRIPTION OF THE DRAWINGS

The present invention may be better understood in accordance with the following exemplary figures, in which:

- FIG. 1 is a block diagram of a system for communicating with an electronic apparatus according to an exemplary embodiment of the present invention;
- FIG. 2 is a block diagram of a personal computer (PC) for use with the present invention;
- FIG. 3 is a block diagram of a control system of a video display device for use with the present invention;
- FIG. 4 is a flowchart showing an operation of a system for communicating with a video display device according to an exemplary embodiment of the present invention; and

FIG. 5 is a flowchart showing an operation of a system for communicating with a video display device depending on the properties of the video display device according to an exemplary embodiment of the present invention.

DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

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As used herein, the term "media object" includes audio, video, textual, multimedia data files, and streaming media files. Multimedia objects comprise any combination of text, image, video, and audio data. Streaming media comprises audio, video, multimedia, textual, and interactive data files that are delivered to a user via the Internet, satellite or other communications network environment and begin to play on the user's computer/ device before delivery of the entire file is completed. Media objects may be transmitted over any communications network including via the Internet, satellite (digital satellite system, digital video system-satellite), cable, digital subscriber line, T1 lines, wireless network, or other delivery systems capable of delivering media objects.

Examples of the content of media objects include songs, political speeches, news broadcasts, movie trailers, movies, television show broadcasts, radio broadcasts, financial conference calls, live concerts, web-cam footage, and other special events. Media objects are encoded in various formats including REALAUDIO®, REALVIDEO®, REALMEDIA®, APPLE QUICKTIME®, MICROSOFT WINDOWS® MEDIA FORMAT, QUICKTIME®, MPEG-2 (MOTION PICTURE EXPERTS GROUP) VIDEO COMPRESSION, MPEG-4 VIDEO AND/OR AUDIO COMPRESSION, JOINT VIDEO TEAM COMPRESSION FORMAT (MPEG-4 part 10 AVC, H.264), MPEG-2 LAYER III AUDIO, MP3®. Typically, media objects are designated with extensions (suffixes) indicating compatibility with specific formats. For example, media objects (e.g., audio and video files) ending in one of the extensions, .ram, .rm, .rpm, are compatible with the REALMEDIA® format. Some examples of file extensions and their compatible formats are listed in the Table 1. A more exhaustive list of media types, extensions and compatible formats may be found at http://www.bowers.cc/extensions2.htm.

Format	Extension
REALMEDIA®	.ram, .m, .rpm
APPLE	.mov, .qif
QUICKTIME®	
MICROSOFT	.wma, .cmr, .avi
WINDOWS® MEDIA	
PLAYER	

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MACROMEDIA	.swf, .swl
FLASH	
MPEG	.mpg, .mpa, .mp1,
	.mp2
MPEG-2 LAYER III	.mp3, .m3a, .m3u
Audio	

TABLE 1

The illustrated embodiments of the invention operate with media objects that contain video data for presenting a video presentation of "near to motion picture quality". Such media objects may be encoded in a variety of formats such as MPEG-2 (Motion Picture Standards Group Standard ISO/IEC 13818-1:2000) and ITU-T H.264/MPEG AVC (ISO/IEC 14496-10), or may be uncompressed video. It is noted that the invention also operates with over the air broadcasted programming such as used for Advanced Television System (ATSC) or Digital Video Broadcasts (DVB) compliant video signals.

FIG. 1 is a block diagram of a system 100 for communicating with an electronic apparatus according to an exemplary embodiment of the present invention. As shown in FIG. 1, the system 100 includes, inter alia, a personal computer (PC) 110, electronic appliances, for example, video display devices 120a, b ... k, an infrared (IR) transmitter 140, and media server 170. The PC 110 and the video display devices 120a, b ... k, are connected together over a local area network (LAN) 130 via a pair of connection means 150, 160a, b ... k, and connection means 180.

The PC 110 may be a portable or laptop computer, a personal digital assistant (PDA), etc. that is capable of communicating with the video display devices 120a, b ... k using a communication protocol such as a factory defined or proprietary protocol that is capable of supporting a feature set of one of the video display devices 120a, b ... k. The video display devices 120a, b ... k may be digital video display device having enhanced-definition television (EDTV) and high-definition video television (HDTV) capabilities, and plasma, liquid crystal, organic light emitting, or cathode ray tube (CRT) displays, etc. The video display devices 120a, b ... k are also capable of communicating with a device such as the PC 110 and IR transmitter 140 via external interfaces, such as an interface menu at the video display devices 120a, b ... k, the connection means 150, 160a, b ... k or an infrared receiver. The IR transmitter 140 may be a common video display device remote control such as a universal remote control having infrared transmission capabilities. Video display devices 120a, b ... k, are

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also preferably capable of decoding received media objects using a media player application such as REALPLAYER or WINDOWS MEDIA PLAYER.

It is to be understood, that although the electronic apparatus of FIG. 1 is illustrated as one of several video display devices 120a, b ... k, the electronic apparatus can be any number of network devices such as satellite receiver, digital video disk (DVD) player, stereo equipment, etc., other personal computers, set top boxes, and which can be connected over a network and accessed via a client-server or peer to peer architecture.

The LAN 130 may use networking protocols such as Ethernet using a 10BaseT, 100BaseT or 1000BaseT standard, token ring, asynchronous transfer mode (ATM), etc. or any networking protocol that allows for automatic configuration and restoration of a video display device's internet protocol (IP) address. The connection means 150, 160a, b ... k, and connection means 180, may be a twisted pair cable capable of connecting the PC 110 and video display devices 120a, b ... k over, for example, an Ethernet network. The connection means 150, 160 a, b ... k, and connection means 180 may also be terminated with RJ-45 style Ethernet connectors, although other connectors may be used.

It is also contemplated that connection means 150 and 180 may be a connection to LAN 130 through the use of a network fabric, such as the Internet. The use the network fabric may be any type of network known in the art. Preferably, such a network is capable of accommodating multiple connections between resources at a server side of a server and at the client side of a client, such connections being UDP based, TCP/IP based, or a mixture of both. The bandwidth accommodated by network 150 is preferably a large bandwidth connection such as a T1 connection (1.5 Megabits per second, Mbps), T3 connection (45 Mbps), DS3 connection (45 Mbps), OC3 connection (155 Mbps), OC12 (248000 Mbps), and the like.

Media server 170 is a storage device such as a matrix of hard drives having a capacity of Terabytes and/or Gigabytes capable of storing multiple media objects. Media server 170 is also capable of delivering such media objects to display devices 120a...k through connection means 180 via LAN 130.

FIG. 2 is a block diagram of a PC 200 for use with the present invention. The PC 200 may be used in place of or in conjunction with the PC 110 of FIG. 1. The PC 200 includes a central processing unit (CPU) 210 and a memory 220 and, is connected to an input 230 and an output 240 via a data bus 250. The memory 220 includes a random access memory (RAM) 260 and a read only memory (ROM) 270. The memory 220 can also include a database, disk drive, tape drive, etc., or a combination thereof. The RAM 260 function as a data memory that stores data used during execution of a

program in the CPU 210 and is used as a work area. The ROM 270 functions as a program memory for storing a program executed in the CPU 210. The input 230 is constituted by a keyboard, mouse, connecting means, input device, etc. and the output 240 is constituted by a liquid crystal display (LCD), CRT display, printer, connecting means, etc.

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It is to be understood that the CPU 210 and memory 220 include data associated with communicating via a number of communication protocols used by an electronic apparatus, for example, the video display devices 120a, b ... k of FIG. 1. The data associated with communicating with the video display devices 120a, b ...k includes, inter alia, identification parameters such as the PC's 200 IP address, port and password. Further, the PC 200 includes software stored in its memory 220 to provide service technicians with a method to diagnose and repair the video display devices 120a, b ...k. This software may be of the type commonly used by video display device service technicians such as, CHIPPER CHECK™ available from Thomson, to service and diagnose the problems of video display devices.

FIG. 3 is a block diagram of a control system of a video display device 300 for use with the present invention. The control system 300 includes, inter alia, a microprocessor (µP) 310, an electrically erasable programmable read only memory (EEPROM) 320 and output devices 340. The microprocessor 310, EEPROM 320 and output devices 340 communicate with each other via a data bus 350. An input 360 is connected to the microprocessor 310 and, a backend processor 330 is connected to the data bus 350.

The microprocessor 310 communicates with the output devices 340 such as light emitting diodes (LEDs), digital video interfaces (e.g., high definition multimedia interface (HDMI) 1394), infrared transmitters, etc. and the backend processor 330 to control a digital video display device such as one of the video display devices 120a, b ... k of FIG. 1. The microprocessor 310 also communicates with the backend processor 330 to perform backend processing such as video processing and, the backend processor 330 is also coupled to the output device 340 to control, for example, display parameters and to improve video quality. The microprocessor 310 also receives input 360 from a video display device's front panel, remote control, EEPROM 320 and any of the devices that are connected to the data bus 350. The EEPROM 320 stores values used by the microprocessor to control one of the video display devices 120a, b ... k. These values may include, for example, alignment information, initialization signals and customer information. Exemplary customer information may include a channel scan list, color, brightness and volume levels.

The EEPROM 320 includes information such as values associated with one of the video display devices 120a, b ... k that were stored in the EEPROM 320 when one of the video display devices 120a, b ... k were made. The EEPROM 320 also has the ability to have information written to it from an external device such as the PC 110 or IR transmitter 140. Thus, for example, the EEPROM 320 can store identification parameters written to it from the PC 110. These parameters may include the PC's 110 IP address and port, thereby allowing the PC 110 to communicate with one of the video display devices 120a, b ... k. Once the PC 110 is in communication with one of the video display devices 120a, b ... k, the PC's 110 service and testing software sends commands to one of the video display devices 120a, b ... k to perform a number of operations on one of the video display devices 120a, b ... k.

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FIG. 4 is a flowchart showing an operation 400 of a system for communicating with a video display device according to an exemplary embodiment of the present invention. As shown in FIG. 4, a service technician transmits a communication to, for example, a video display device 120a of FIG. 1 (step 410). The communication is transmitted by, for example, the IR transmitter 140 of FIG. 1. It is to be understood that the communication may also be transmitted to the video display device 120a by accessing an interface menu on the video display device's 120a screen and inputting the communication. The communication includes parameters associated with identifying a PC, for example, PC 110 of FIG. 1 to the video display device 120a. These parameters include, inter alia, the PC's 110 IP address and port. It should be understood that the communication is transmitted via a factory defined protocol or a proprietary protocol that is compatible with the video display device 120a

After the communication has been transmitted, it is received by the video display device 120a (step 420). An infrared receiver located at the video display device 120a receives this communication. Upon receipt of the communication, the video display device 120a stores the identification parameters associated with the communication in a memory, such as the EEPROM 320 of FIG. 3 (step 430). This occurs, because the communication was transmitted via a protocol used by the video display device 120a that is considered safe to communicate with, thereby permitting data associated with the communication to be stored. Once the identification parameters, which include the PC's 110 IP address and port, are stored in the video display device's 120a memory, the video display device 120a transmits a signal to the PC 110 (on the port specified in the communication of step 410) in an effort to establish communication between the video display device 120a and the PC 110 (step 440). In other words, the video display device 120a is attempting to complete a handshake with the PC 110 by transmitting a message via a handshaking protocol telling the PC 110

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that it has received the PC's 110 identification information and is ready to receive further communication from the PC 110.

Upon receipt of the video display device's 120a request to establish further communication, the PC 110 responds to the request by transmitting a communication indicating that it is the device with which the video display device 120a should be communicating (step 450), thereby completing the handshake. This handshake assures both the video display device 120a and the PC 110 that they are connected to each other and not an imposter or an unauthorized user and, is possible because the PC's 110 IP address and port were programmed into the memory of the video display device 120a by the service technician in step 410. It is to be understood that in this configuration the video display device 120a functions as a client and the PC 110 functions as a remote server in client-server software architecture.

After a secure communication channel between the video display device 120a and the PC 110 is established, the PC 110 may then communicate with the video display device 120a to perform a desired function on the video display device related to, for example, servicing or testing (step 460). The function to be performed may be one of a color, geometry, video, stereo or picture-in-picture (PIP) alignment, or an adjustment to various calibration values associated with picture quality, etc.

In an alternative embodiment of the present invention, the PC 110 of FIG. 1 can communicate with more than one electronic apparatuses, such as the video display devices 120a, b ... k. This is accomplished by transmitting the PC's 110 IP address and port to, for example, the video display device 120b, when the PC 110 is already in communication with the video display device 120a (by performing the same or similar process as described above in steps 410-450 of FIG. 4). In order to accomplish this, the PC 110 assigns a different port to the video display device 120b. Once the steps 410-450 are completed the PC 110 may then begin to perform a desired function on the video display device 120a. When performing desired functions on the video display device 120a. When performing functions on more than one video display device, the PC 110 can have separate windows for each video display device on an output such as an LCD display.

It is to be further understood that the PC's 110 IP address and port (for video display device 120b) can be transmitted to the video display device 120b at the same time the PC 110 IP address and port (for video display device 120a) are transmitted to the video display device 120a. Thereby, enabling a service technician to connect and then communicate with more than one video display device simultaneously.

By communicating with more than one video display device the PC 110 offers flexibility to a service technician, because they are not limited to performing functions

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on one video display device at a time. In addition, by having control of more than one video display device or electronic apparatus a service technician and/or authorized user of the present invention may for example, simultaneously turn multiple video display devices off or on, change channels, volume, etc. or view, for example, the same movie on several DVD players.

In an alternative variant of the present invention a computer's identification information may be transmitted wirelessly from a transmitter using Bluetooth, Institute of Electrical and Electronics Engineers (IEEE) 802.11 or Infrared Data Association (IrDA) wireless transmission technologies.

FIG. 5 is a flowchart disclosing a method 500 for communicating with a video display device to receive a media object depending on the properties of the video display device. Specifically, it is recognized that with the development of video display device technologies such as OLED, plasma, LCD, and the like, there may be variances in the rendering of media service on a display device. For example, a media service encoded with MPEG-2 video codec may be of a motion picture quality when displayed on a Cathode Ray Tube (CRT) display device but may be blurred when rendered on an OLED display device.

The cause for the problem given in the example above pertains to encoding methodology used for encoding a media service. Typically, encoders use compression techniques that reduce the size of encoded media object from the original source material. For example, an MPEG-2 based encoder accomplishes a 40 to 50:1 type of compression when used to encode video based source material. Part of the compression takes advantage of techniques known as psychometric functions that are related to how human beings perceive media objects visually and aurally, where a percentage of data can be eliminated from source material without a human perceiving the loss of such data. The development of MPEG-2 and other encoding techniques are developed with humans being tested to determine what visual or audio information needs to be kept and what can eliminated from source material, see ITU Recommendation BT.500-8, "Methodology for Subjective Assessment of the Quality of Television Pictures," 1998, for background about testing human visual perception.

Additionally with the development of new display technologies, a human may be able to notice artifacts due to an encoding technique selected (for example, on an OLED display device) that would not be as apparent on a second display device (a CRT display). Continuing with the present example, it may be the case that a human would notice artifacts of the macroblocks used for MPEG-2 encoded video on an OLED display device that would not be apparent to a human on the CRT. This may due to the underlying physical properties of the display device technology used to render a video

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image. Hence, the screen refresh techniques for the CRT may be better at hiding such artifacts of MPEG-2 than the screen refresh techniques for an OLED display device.

Recognizing these deficiencies of human perception, the present invention discloses architecture for delivering media objects in an encoding format optimized for display device used to render such media object. For an illustrative embodiment of the present invention by referring to FIG. 1, video display device 120a represents a CRT based video display device and video display device 120b is an OLED display device. Both display devices are connected to media server 170 through a connection means 180.

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In step 510, display device 120a requests a media object from media server 170. For example, the request for a media object is for a movie that is delivered through a video on demand system or a media object delivered as streaming media through the Internet. Media server 170 receives this request, in step 520, and determines the capabilities of display device 120a. In the preferred embodiment of the invention, display device 120a transmits identification parameters as part of device parameters that identify the display device technology used for that device when rendering a media service. For example, the display device 120a transmits metadata identifying the display device as a CRT based television. Table II presents an exemplary embodiment of a metadata field DISPLAYDEVICE and corresponding values that may be used to identify a display device technology using an Extensible Markup Language format. For example, metadata received as <DISPLAYDEVICE> CRT </DISPLAYDEVICE> represents a CRT based display device technology. Other metadata formats may be used, in accordance with the principles of the present invention.

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TABLE 2

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Alternatively, based on the request by display device 120a for a media object, the IP and/or port address of display device 120a is transmitted as part of the request. Media server 170 preferably has a database that contains information that identifies the technology used for identifying the display device by the IP address and/or port address information that is part of the request. This information could be entered in by a user and stored by media server 170 when registering the display device through a network connection.

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Step 530 presents an optional step where display device 120a communicates identification parameters to media server 170. This communication is typically in response to a query made by media server 170 requesting the display technology used for the display device. Preferably, this communication of identification parameters is similar to the metadata presented in TABLE 2, although other formats of identification parameters may be used.

In response to the identification parameters received by media server 170, in step 540 the media server communicates a media object to video display 120a that corresponds to the display technology used for the display device. In the preferred embodiment, media server 170 utilizes a lookup table or database entry that designates a display technology to an encoding technique that has been predefined as producing an optimal video image for the display device technology. For example, for a CRT it may be determined that MPEG-2 encoded media object produces an optimal video presentation compared to an OLED display where a Windows Media 9 encoded media object may produce the optimal video presentation. Any encoding format may be selected, in accordance with the determinations made by the operator of media server 170. These determinations may change as new encoding techniques are created as with further improvements in display device technologies.

In the preferred embodiment, media server 170 stores multiple versions of the same source material as media objects encoded in different formats. In the present example, media server 170 would store the source material of a movie as a media object encoded in MPEG-2 format and a media object encoded in Windows Media 9 format. Alternatively, media server 170 would encode the source material of a media object into the appropriate format in real time or in close to real time using an encoder, in accordance with the designated encoding format for a display technology as described above.

Media server 170 then transmits the MPEG-2 encoded media object to display device 120a that is designated as a CRT, for this example. The media object is transmitted through connection means 180 and LAN 130 to display device 120a. If

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display device 120b requests the same movie, media server 170 would transmit the Windows Media 9 encoded media object to the OLED based display device, as specified above. Other encoding formats and display devices are to be considered in accordance with the principles of the present invention.

In addition, for each format of a media object, visual attributes of the source material used to generate a media object are to be modified as to produce an optimal video picture for a specific display technology. Visual attributes to be modified include color, tint, contrast, hue, saturation, brightness, frame rate, lines per field, pixels, and the like. The visual attributes are selected and modified in accordance with

experimentally determined parameters for providing the optimal viewing video on a display device for a particular technology.

In step 550, the display device receiving the media object renders the object as video. In the present example, each display device has a decoder capable of decoding a received media service. Hence, display device 120a has an MPEG-2 video decoder and display device 120b has a Windows Media 9 video decoder. The decoder or decoders for a display device are to be selected in accordance with the format of the media objects to be decoded by the display device.

In an alternative embodiment of the present invention, sub-channels or "minor" channels of a multi-casted digital broadcast may be used to transmit multiple versions of a media object as used for an ATSC or DVB based television system. Specifically, a sub-channel for a digital broadcast system may be designated to carry programs for a display device of a first technology and utilize a second sub-channel to carry programs for a display device of a second technology, where the media object is generated from the same source material. For example, a program transmitted on a first sub-channel may have the gamma values of the color of the programming be modified for display on a plasma device compared to a program carried on a second sub-channel where the programming would be color corrected for display on a LCD screen. Other attributes of programming may be modified in accordance with the principles of the present invention.

It is to be understood that the present invention may be implemented in various forms of hardware, software, firmware, special purpose processors, or a combination thereof. In one embodiment, the present invention may be implemented in software as an application program tangibly embodied on a program storage device. The application program may be uploaded to, and executed by, a machine comprising any suitable architecture.

It is to be further understood that, because some of the constituent system components and method steps depicted in the accompanying figures may be

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implemented in software, the actual connections between the system components (or the process steps) may differ depending on the manner in which the present invention is programmed. Given the teachings of the present invention provided herein, one of ordinary skill in the art will be able to contemplate these and similar implementations or configurations of the present invention.

CLAIMS

What is claimed is:

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 A method for communicating with an electronic apparatus via a network, the method comprising:

receiving a communication (420) comprising identification parameters associated with a computer, wherein the communication is compatible with a communication protocol of a first electronic apparatus;

transmitting a request (440) to establish communication with the computer associated with the received identification parameters, wherein the request is transmitted via a network;

receiving a response to the request, wherein the response attempts to establish communication between the computer and the first electronic apparatus, wherein the response is transmitted via the network; and

validating the response (450) to the request to ensure that the computer to which the request to establish communication was transmitted is the computer associated with the received identification parameters.

- 20 2. The method of claim 1, wherein the request to establish communication between the computer and the first electronic apparatus is transmitted from the first electronic apparatus with which the communication is desired.
- 3. The method of claim 1, wherein the first electronic apparatus uses a factory defined communication protocol.
 - 4. The method of claim 1, wherein the identification parameters associated with the computer comprise an IP address and port of the computer.
- 30 5. The method of claim 1, further comprising: storing the identification parameters (430) associated with the computer in a memory of the first electronic apparatus.
 - 6. The method of claim 1, further comprising: receiving a command from the computer (460), wherein the command is associated with performing a desired function on the first electronic apparatus.

- 7. The method of claim 6, wherein the desired function is associated with one of servicing, testing and controlling the first electronic apparatus.
- 8. The method of claim 1, wherein the network is an Ethernet network.

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9. The method of claim 1, further comprising:

receiving a communication comprising identification parameters associated with the computer, wherein the communication is compatible with a communication protocol of a second electronic apparatus;

transmitting a request to establish communication with the computer associated with the received identification parameters, wherein the request is transmitted via the network:

receiving a response to the request, wherein the response attempts to establish communication between the computer and the second electronic apparatus, wherein the response is transmitted via the network; and

validating the response to the request to ensure that the computer to which the request to establish communication was transmitted is the computer associated with the received identification parameters.

20 10. The method of claim 9, further comprising:

receiving a command from the computer, wherein the command is associated with performing a desired function on the second electronic apparatus.

11. A method for communicating with an electronic apparatus via a network, the method comprising:

transmitting a communication (410) comprising identification parameters associated with a computer to a first electronic apparatus, wherein the communication is compatible with a communication protocol of the first electronic apparatus;

receiving a request to establish communication with the first electronic apparatus, wherein the request is transmitted via a network; and

transmitting a response to the request, wherein the response attempts to establish communication between the computer and the first electronic apparatus, wherein the response is transmitted via the network.

35 12. The method of claim 11, wherein the communication comprising identification parameters associated with the computer uses a proprietary protocol used by the first electronic apparatus.

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- 13. The method of claim 11, wherein the identification parameters comprise an IP address and port of the computer.
- 5 14. The method of claim 11, further comprising:

transmitting a command to the first electronic apparatus, wherein the command is associated with performing a desired function on the first electronic apparatus.

- 15. The method of claim 14, wherein the desired function is associated with one of servicing, testing and controlling the first electronic apparatus.
 - 16. The method of claim 11, wherein the network is an Ethernet network.
 - 17. The method of claim 11, further comprising:

transmitting a communication comprising identification parameters associated with the computer to a second electronic apparatus, wherein the communication is compatible with a communication protocol of the second electronic apparatus;

receiving a request to establish communication with the second electronic apparatus, wherein the request is transmitted via the network; and

transmitting a response to the request, wherein the response attempts to establish communication between the computer and the second electronic apparatus, wherein the response is transmitted via the network.

- 18. The method of claim 17, further comprising:
- transmitting a command to the second electronic apparatus, wherein the command is associated with performing a desired function on the second electronic apparatus.
- 19. A system (100) for communicating with an electronic apparatus via a network, the system comprising:

a first device (140) for transmitting a communication comprising identification parameters associated with a second device (110), wherein the communication is compatible with a communication protocol of a first electronic apparatus (120a, b...k):

a first electronic apparatus for communicating with the second device, wherein first electronic apparatus comprises a first interface for wirelessly communicating with the first device and a second interface for communicating with the second device via a network (130); and

a second device for communicating with the first electronic apparatus, wherein the second device communicates with the first electronic apparatus via the network.

20. The system of claim 19, wherein the first device is an infrared transmitter.

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- 21. The system of claim 19, wherein the identification parameters transmitted by the first device comprise an internet protocol (IP) address and port associated with the second device.
- 10 22. The system of claim 19, wherein the second device is a computer.
 - 23. The system of claim 19, wherein the first electronic apparatus is a video display device.
- 15 24. The system of claim 19, wherein the network is an Ethernet network.
 - 25. The system of claim 19, wherein the first interface of the first electronic apparatus decodes an infrared signal.
- 20 26. The system of claim 19, wherein the first electronic apparatus further comprises: a memory for storing the identification parameters associated with the second device.
 - 27. The system of claim 19, wherein the second interface is an Ethernet connector.

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- 28. The system of claim 19, wherein the first electronic apparatus executes commands transmitted by the second device that are associated with performing a desired function on the first electronic apparatus.
- 30 29. The system of claim 19, wherein the first and second devices use a proprietary protocol compatible with the first electronic apparatus.
 - 30. The system of claim 19, further comprising:
- a second electronic apparatus for communicating with the second device via the network after the first electronic apparatus has established communication with the second device.

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- 31. The system of claim 30, wherein the second electronic apparatus is a video display device.
- 32. A computer program product comprising a computer useable medium having computer program logic recorded thereon for communicating with an electronic apparatus via a network, the computer program logic comprising:

program code for receiving a communication comprising identification parameters associated with a computer, wherein the communication is compatible with a communication protocol of an electronic apparatus;

program code for transmitting a request to establish communication with the computer associated with the received identification parameters, wherein the request is transmitted via a network;

program code for receiving a response to the request, wherein the response attempts to establish communication between the computer and the electronic apparatus, wherein the response is transmitted via the network; and

program code for validating the response to the request to ensure that the computer to which the request to establish communication was transmitted is the computer associated with the received identification parameters.

20 33. A computer program product comprising a computer useable medium having computer program logic recorded thereon for communicating with an electronic apparatus via a network, the computer program logic comprising:

program code for transmitting a communication comprising identification parameters associated with a computer to an electronic apparatus, wherein the communication is compatible with a communication protocol of the electronic apparatus;

program code for receiving a request to establish communication with the electronic apparatus, wherein the request is transmitted via a network; and

program code for transmitting a response to the request, wherein the response attempts to establish communication between the computer and the electronic apparatus, wherein the response is transmitted via the network.

- 34. A system (100) for communicating with a video display device via an Ethernet network, the system comprising:
- an infrared transmitter (140) for wirelessly transmitting an infrared signal to a video display device (120a, b ... k) via a communication protocol used by the video

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display device, wherein the infrared signal comprises an internet protocol (IP) address and port associated with a computer (110);

a video display device for receiving the infrared signal and for communicating with the computer via an Ethernet network (130), wherein the video display device comprises an infrared receiver for receiving the infrared signal and an Ethernet connector for connecting to the Ethernet network; and

a computer for performing a desired function on the video display device, wherein the computer comprises an Ethernet connector for connecting to the Ethernet network and an input means for inputting the desired function to be performed on the video display device.

35. A method for receiving a media object corresponding to a display technology used for a display device comprising the steps of:

determining a device display parameter (120a, b ...k) related to the display technology used for the display device;

communicating said parameter (130); and

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receiving the media object (120a, b ...k), wherein the media object corresponds to the display technology used for the display device.

- 20 36. The method of claim 35, wherein said parameter indicates the display technology used is at least one of: a cathode ray tube, organic light emitting diode, liquid crystal display, liquid crystal on silicon, digital light project, and plasma.
- 37. The method of claim 36, wherein said media object is encoded in a format optimized for a display technology.
 - 38. The method of claim 37, wherein the media object has a visual attribute modified for said display technology, wherein said visual attribute is changed when said media object is to be displayed on a display device using a different display technology.
 - 39. The method of claim 38, wherein said media object is transmitted on a sub-channel of a digital television broadcast system and the changed media object is transmitted on a different sub-channel.
 - 40. A method for transmitting a media object corresponding to a display technology used for a display device comprising the steps of:

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determining a device display parameter related to the display technology used for the display device (120a, b ...k), wherein the parameter is received (170) as part of a request for the media object from the display device (120a, b ...k); and

transmitting the media object to the display device (170), wherein the media object corresponds to the display technology used for the display device (120a, b ...k).

- 41. The method of claim 40, wherein said parameter indicates the display technology used is at least one of: a cathode ray tube, organic light emitting diode, liquid crystal display, liquid crystal on silicon, digital light project, and plasma.
- 42. The method of claim 41, wherein said media object is encoded in a format optimized for a display technology.
- 43. The method of claim 42, wherein the media object has a visual attribute modified for said display technology, wherein said visual attribute is changed when said media object is to be displayed on a display device using a different display technology.
- 44. The method of claim 43, wherein said media object is transmitted on a sub-channel of a digital television broadcast system and said changed media object is transmitted on a different sub-channel.

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<u>100</u>

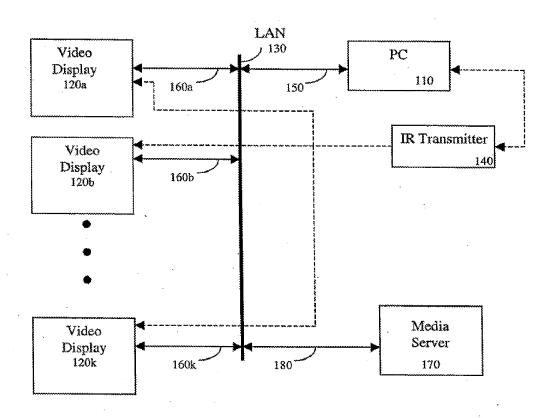


FIG. 1

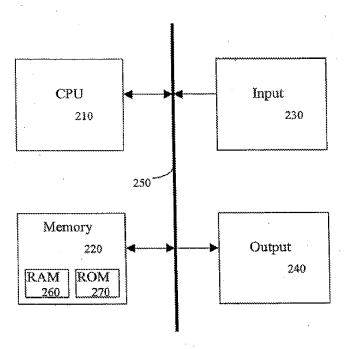


FIG. 2

<u>300</u>

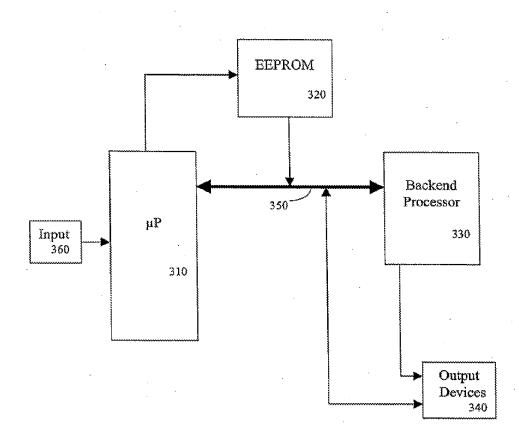


FIG. 3

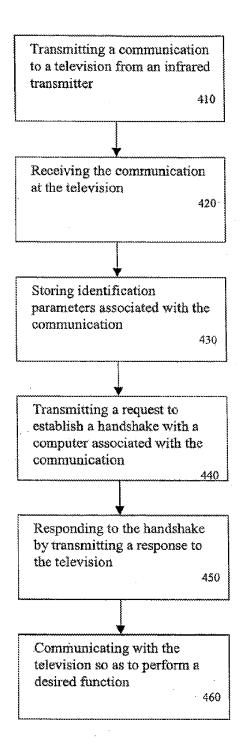


FIG. 4

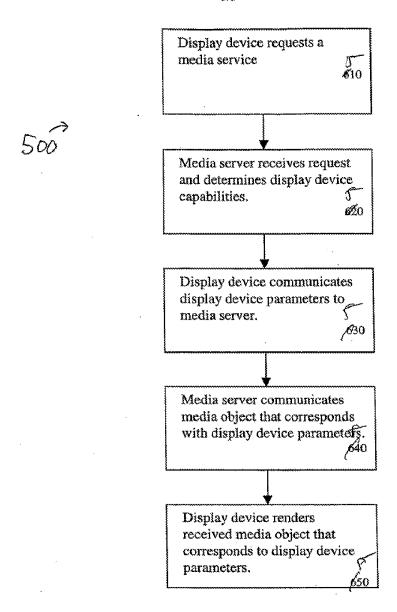


FIG. 5

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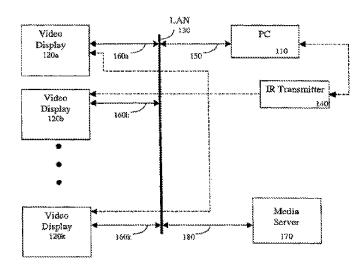
(72) Inventors; and

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GB, GH, GM, HR, HU, ID, IL, IN, 1S, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR COMMUNICATING WITH A DISPLAY DEVICE VIA A NETWORK



(57) Abstract: A system (100) and corresponding methods are provided for enabling communication with an electronic apparatus via a network. The system comprises: a first device (140) for transmitting a communication comprising identification parameters associated with a second device (110), wherein the communication is compatible with a communication protocol of a first electronic apparatus (120a, b ...k); a first electronic apparatus for communicating with the second device, wherein first electronic apparatus comprises a first interface for wirelessly communicating with the first device and a second interface for communicating with the second device via a network (130); and a second device for communicating with the first electronic apparatus, with the second device communicating the first electronic apparatus via the network.

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WO 2004/100500 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 28 April 2005

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INTERNATIONAL SEARCH REPORT

Inte onal Application No PCT/US2004/013859

		PCT/US200	4/013859	
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04L12/28 H04B1/20 H04L29	/06		
According to	o International Patent Classification (IPC) or to both national class	fication and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 7	ocumentation searched (classification system followed by classific H04L H04B	cation symbols)		
Documenta	tion searched other than minimum documentation to the extent th	at such documents are included in the fields a	earched	
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"A" docume consid	degories of cited documents : ent defining the general state of the lart which is not lared to be of particular relavance	"T" later document published after the Into or priority date and not in conflict with cited to understand the principle or th invention	ithe application but	
"E" eadler document but published on or after the international fitting 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)		"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 retevance; the claimed invention cannot be considered to involve an inventive step when the		
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	nan the priority date claimed actual completion of the international search	Date of mailing of the international sea		
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	NL - 2250 HV Rijswijk Tel. (431-70) 340-2040, Tx. 31 651 epo nl, Fax: (421-70) 340-3016	Lievens, K		

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INTERNATIONAL SEARCH REPORT

inte onsi Application No PCT/US2004/013859

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rnational application No. PCT/US2004/013859

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Claims Nos.:
Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
Claims Nos.: because they are dependent dalms and are not drafted in accordance with the second and third sentences of Fluie 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable datms.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2004 /013859

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-34

Method and system for establish a communication

2. claims: 35-44

Method for transmision of media objects based on the properties of a display device $% \left\{ 1,2,\ldots,n\right\} =0$

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte onal Application No PCT/US2004/013859

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Form PCT/ISA/210 (patent family annex) (January 2004)

## NOTICE OF REASONS FOR REJECTION

Patent Application No.: 2014-506460

Drafting Date: June 28, 2016 Mailing Date: July 5, 2016 Examiner: Tatsuo UMEMOTO

Representative: Yusuke HIRAKI & Anor.

Sections Applied: 29(2), 36, 37

This application is rejected for the reason(s) set forth below. A written argument can be submitted in response to this notice within three months from the mailing date.

#### **REASONS**

- 1. (Unity of Invention) The present application does not comply with the requirements of Section 37 of the Patent Law as the claims are deficient in respect of the points mentioned below.
- 2. (Clarity) The present application does not comply with the requirements of Section 36(6)(ii) of the Patent Law as the claims are deficient in respect of the points mentioned below.
- 3. (Inventive steps) The invention according to the claim(s) of the present application indicated below is unpatentable under Section 29(2) of the Patent Law because it could readily have been made by a person skilled in the art prior to the filing of the application on the basis of the inventions disclosed in the herein-cited publication(s) distributed in Japan or abroad prior to the filing of the application.

Note (refer to THE LIST OF CITED REFERENCE about cited references)

- Regarding Reason 1 (Unity of Invention)
- 1. Determination for examination target according to special technical features

  The invention according to claim 1 includes a special technical feature as:

"receiving, in a server system, one or more signals from a remote personal computing device, the one or more signals specifying a video file to be acted upon and identifying a media player for playing the video content, the one or more signals further including a universal playback control command for controlling playing of the

video content on the display device by the media player,

converting, by the server system, the universal playback control command into corresponding programming code to control playing of the video content on the display device by the media player, wherein converting the universal playback control command includes selecting from among a plurality of specific commands, each of which represents a corresponding playback control command for a respective media player;".

Therefore, the examination targets will be claim 1 and claims 2-10, 11-21, 27-38, and 67 including same or corresponding technical features as in claim 1.

## 2. Determination for examination target according to efficiency of examination

The inventions according to claims 22-26, 39-66, and 68-70 are not inventions including all subject matters of claim 1 in the same category as that of claim 1. In addition, it is not possible to examine claims 22-26, 39-66, and 68-70 without substantially searching or inspecting prior arts on the basis of the examination targets determined by the special technical feature. There is no other circumstance to facilitate examination for those claims along with the examination target.

Therefore, the inventions according to claims 22-26, 39-66, and 68-70 will not be examined other than unity of invention.

#### Regarding Reason 2 (Clarity)

#### (1) Claims 5, 14, 15, 16

Claim 5 describes "the universal command . . . the video content . . .". However, "universal command" is not found before this description. Therefore, it is unclear what is meant by "the universal command".

It also applies to claims 14, 15, and 16 including similar descriptions. Therefore, claims 5, 14, 15, and 16 are unclear.

#### (2) Claims 14, 15

Claim 14 describes "the look-up table stores . . . the universal command and a plurality of . . .". However, "look-up table" is not found before this description. Therefore, it is unclear what is meant by "the look-up table". (this may be a typographic error of the number of claim on which claim 14 depends?)

It also applies to claim 15 depending on claim 14.

Therefore, claims 14 and 15 are unclear.

- •Regarding Reason 3 (Inventive Steps)
- •Claims 1, 11, 27, 31, 33, 67
- •Cited References: 1, 2
- •Remarks:

The cited reference 1 describes that "video display device" (paragraph 0012, corresponding to P. 4 L. 17 – P. 5 L. 2 of WO2004100500) are "capable of decoding received media objects using a media player application such as REALPLAYER or WINDOWS MEDIA PLAYER". Then it is understood that the cited reference 1 describes "A machine-implemented method of controlling presentation of video content on a display device by a media player", as in claim 1 of the present application.

Paragraph 0012 of the cited reference 1 also describes that "universal remote control" is used; it is understood from paragraph 0028 (P. 8 L. 36 – P. 9 L. 5 of WO2004100500) and the like that "PC 110" may instruct to playback media objects; it is obvious from TABLE 1, paragraph 0041 (P. 12 L. 12 – P. 12 L. 17 of WO2004100500), and the like that a media player is identified when performing the instruction. Therefore, when instructing playback, a media object is specified and a media player is identified in the cited reference 1.

On the other hand, the cited reference 1 does not describe that "universal playback control command" for controlling playback is converted into playback control command corresponding to a media player, thus different from the present invention.

However, it is a commonly known technique that a remote control command is converted into a playback-side command, as described in the cited reference 2 (paragraphs 0079-0080). Those skilled in the art could readily apply the commonly known technique into the cited reference 1 in which playback is assumed by various types of media players.

It also applies to claims 11, 27, 31, 33, and 67.

Therefore, those skilled in the art could readily achieve the inventions according to claims 1, 11, 27, 31, 33, and 67 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 2, 12
- •Cited References: 1, 2

#### •Remarks:

The cited reference 1 uses various types of media players. When using media players, it is readily anticipated that IDs of the media players are inspected, and that necessary protocols or APIs are loaded. Javascript code is also commonly known as commands.

Therefore, those skilled in the art could readily achieve the inventions according to claims 2 and 12 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

•Claims 3, 4, 13, 14, 15, 29, 30

•Cited References: 1, 2

•Remarks:

The conversion table in the cited reference 2 (paragraph 0080) is a look-up table.

Therefore, those skilled in the art could readily achieve the inventions according to claims 3, 4, 13, 14, 15, 29, and 30 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

•Claims 5, 16, 32

•Cited References: 1, 2

•Remarks:

The cited reference 1 is concerned with playback control. Playback command, stop command, and suspend command are commonly known as playback control commands.

Therefore, those skilled in the art could readily achieve the inventions according to claims 5, 16, and 32 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

•Claims 6, 17

•Cited References: 1, 2

•Remarks:

The cited reference 1 (paragraphs 0008-0009, corresponding to the two paragraphs before TABLE 1 in WO2004100500) describes various examples of media objects. Interactive video game is commonly known as media object.

Therefore, those skilled in the art could readily achieve the inventions according to claims 6 and 17 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 7, 18
- •Cited References: 1, 2
- •Remarks:

The cited reference 1 (paragraph 0008) describes about streaming.

Therefore, those skilled in the art could readily achieve the inventions according to claims 7 and 18 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 8, 19, 34
- •Cited References: 1, 2
- •Remarks:

The cited reference 1 (paragraph 0028 and the like) describes that video display devices are associated.

Therefore, those skilled in the art could readily achieve the inventions according to claims 8, 19, and 34 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 9, 10, 20, 21, 35, 36, 37
- •Cited References: 1, 2
- •Remarks:

Identifiers other than IP address or MAC address are commonly known for associating devices.

Therefore, those skilled in the art could readily achieve the inventions according to claims 9, 10, 20, 21, 35, 36, and 37 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 28
- •Cited References: 1, 2
- •Remarks:

It is a common technique to use a look-up table for association.

Therefore, those skilled in the art could readily achieve the inventions according to claim 28 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

- •Claims 38
- •Cited References: 1, 2
- •Remarks:

It is a commonly known technique to remotely control over the Internet.

Therefore, those skilled in the art could readily achieve the inventions according to claim 38 on the basis of the cited references 1 and 2. Thus those claims cannot be patented under JP Patent Law Article 29 (2).

#### <THE LIST OF CITED REFERENCE>

- 1. JP Patent Publication (Kohyo) 2006-525771 A
- 2. JP Patent Publication (Kokai) 2004-356695 A (commonly known technique)

## 拒絕理由通知書

特許出願の番号

特願2014-506460

起案日

平成28年 6月28日

特許庁審査官

梅本 達雄

9648 5C00

特許出願人代理人

平木 祐輔(外 4名) 様

適用条文

第29条第2項、第36条、第37条

この出願は、次の理由によって拒絶をすべきものです。これについて意見がありましたら、この通知書の発送の日から3か月以内に意見書を提出してください。

#### 理由

- 1. (発明の単一性)この出願は、下記の点で特許法第37条に規定する要件を満たしていない。
- 2. (明確性) この出願は、特許請求の範囲の記載が下記の点で、特許法第36 条第6項第2号に規定する要件を満たしていない。
- 3. (進歩性) この出願の下記の請求項に係る発明は、その出願前に日本国内又は外国において、頒布された下記の刊行物に記載された発明又は電気通信回線を通じて公衆に利用可能となった発明に基いて、その出願前にその発明の属する技術の分野における通常の知識を有する者が容易に発明をすることができたものであるから、特許法第29条第2項の規定により特許を受けることができない。

記 (引用文献等については引用文献等一覧参照)

- ●理由1 (発明の単一性) について
- 1. 特別な技術的特徴に基づく審査対象の決定

請求項1に係る発明に、「サーバシステムにおいて、遠隔の個人コンピュータデバイスから1以上の信号を受信するステップであって、前記1以上の信号は、動作を実施すべきビデオファイルを指定するとともに前記ビデオコンテンツを再生するメディアプレイヤーを識別し、前記1以上の信号はさらに、前記メディアプレイヤーが前記ディスプレイデバイス上で前記ビデオコンテンツを再生する動作を制御するユニバーサル再生制御コマンドを含む、ステップ、前記サーバシステムが、前記ユニバーサル再生制御コマンドを、前記メディアプレイヤーが前記

ディスプレイデバイス上で前記ビデオコンテンツを再生する動作を制御するため の対応するプログラムコードへ変換するステップであって、複数の特定コマンド のなかから個々のメディアプレイヤーに対応する再生制御コマンドに相当するも のを選択するステップを含む、ステップ」を含むという特別な技術的特徴が発見 された。

したがって、請求項1に係る発明と、当該特別な技術的特徴と同一の又は対応 する特別な技術的特徴を有する、請求項2-10、11-21、27-38、6 7に係る発明とを、審査対象とする。

## 2. 審査の効率性に基づく審査対象の決定

請求項22-26、39-66、68-70に係る発明は、請求項1に係る発 明の発明特定事項を全て含む同一カテゴリーの発明ではない。そして、請求項2 2-26、39-66、68-70に係る発明は、審査対象とされた発明を審査 した結果、実質的に追加的な先行技術調査や判断を必要とすることなく審査を行 うことが可能である発明ではなく、当該発明とまとめて審査を行うことが効率的 であるといえる他の事情も無い。

したがって、請求項22-26、39-66、68-70に係る発明は、特許 法第37条以外の要件についての審査対象としない。

#### ●理由2 (明確性) について

## (1)請求項 5、14、15、16

請求項5には「前記ユニバーサルコマンドは、前記ビデオコンテンツを再生す る」との記載があるが、この記載よりも前に「ユニバーサルコマンド」の記載が 無く、「前記ユニバーサルコマンド」が何を指し示しているのかが不明確である

同様の記載のある請求項14、15、16も同様である。 よって、請求項5、14、15、16に係る発明は明確でない。

## (2)請求項14、15

請求項14には「前記ルックアップテーブルは、前記ユニバーサルコマンドと 、複数の」との記載があるが、この記載よりも前に「ルックアップテーブル」の 記載が無く、「前記ルックアップテーブル」が何を指し示しているのかが不明確 である。(引用請求項の誤記か?)

また、請求項14を引用する請求項15にも同様の点が指摘される。 よって、請求項14、15に係る発明は明確でない。

## ●理由3 (進歩性) について

- ・請求項 1, 11, 27, 31, 33, 67
- · 引用文献等 1、2
- 備考

引用文献1には、「ビデオ表示装置」(段落[0012])が「REAL P LAYER又はWINDOWS MEDIA PLAYERのようなメディアプ レイヤアプリケーションを使用して受信したメディアオブジェクトをデコード可 能」とすることが記載されており、引用文献1には本願請求項1に係る発明と同 様に、「メディアプレイヤーによるディスプレイデバイス上のビデオコンテンツ の提示を制御する、機械実装した方法」が記載されていると認められる。

また、引用文献1の段落[0012]には「ユニバーサルリモコン」を用いる ことが記載され、段落[0028]等から、「PC110」においてもメディア オブジェクトの再生が指示できると認められ、さらに、表1、段落[0041] 等の記載から、その指示の際に、メディアプレイヤを識別するものであることは 明らかであるから、再生を指示する際は、メディアオブジェクトを指定するとと もに、メディアプレイヤを識別し、再生を指示することを行っていると認められ る。

もっとも、引用文献1においては、再生する動作を制御するための「ユニバー サル再生制御コマンド」を、メディアプレイヤに対応する再生制御コマンドに相 当するコマンドに変換し、格納することが記載されていない点で相違している。

しかしながら、リモコンのコマンドを再生側に対応するように変換することは 例えば引用文献2 (段落「0079]-「0080])記載のように周知技術に 過ぎず、各種メディアプレイヤでの再生を想定する引用文献1記載のものにおい て、当該周知技術を適用することは当業者が容易に想到し得たことである。

請求項11、27、31、33、67についても同様である。

よって、請求項1、11、27、31、33、67に係る発明は、引用文献1 、2記載のものに基づいて、当業者であれば容易に発明をすることができたもの であるから、特許法第29条第2項の規定により、特許を受けることができない

- 請求項2、12
- · 引用文献等 1、2
- ・備考

引用文献1は、各種メディアプレイヤを用いるものであり、その際に、そのI Dをチェックして必要なプロトコルやAPIを読み出すことは普通に想定される ことであり、コマンドとしてJavaScriptコードも周知である。

よって、請求項2、12に係る発明は、引用文献1、2記載のものに基づいて 当業者であれば容易に発明をすることができたものであるから、特許法第29 条第2項の規定により、特許を受けることができない。

- 請求項3、4、13、14、15、29、30
- · 引用文献等 1、2
- 備考

引用文献2(段落[0080])の変換テーブルは、ルックアップテーブルと いえる。

よって、請求項3、4、13、14、15、29、30に係る発明は、引用文 献1、2記載のものに基づいて、当業者であれば容易に発明をすることができた ものであるから、特許法第29条第2項の規定により、特許を受けることができ ない。

- ·請求項 5、16、32
- · 引用文献等 1、2
- 備考

引用文献1は、再生制御するものであり、再生制御のコマンドとして再生命令 、停止命令、一時停止命令は周知である。

よって、請求項5、16、32に係る発明は、引用文献1、2記載のものに基 づいて、当業者であれば容易に発明をすることができたものであるから、特許法 第29条第2項の規定により、特許を受けることができない。

- ·請求項 6、17
- · 引用文献等 1、2

引用文献1 (段落 [0008] - [0009]) には、メディアオブジェクト について様々な例が記載されており、メディアオブジェクトとして、インタラク ティブビデオゲームは周知である。

よって、請求項6、17に係る発明は、引用文献1、2記載のものに基づいて 、当業者であれば容易に発明をすることができたものであるから、特許法第29 条第2項の規定により、特許を受けることができない。

- 7、18 ・請求項
- · 引用文献等 1、2

• 備考

引用文献1 (段落[0008]) には、ストリーミングについて記載されてい る。

よって、請求項7、18に係る発明は、引用文献1、2記載のものに基づいて 、当業者であれば容易に発明をすることができたものであるから、特許法第29 条第2項の規定により、特許を受けることができない。

- 請求項8、19、34
- · 引用文献等 1、2
- 備考

引用文献1 (段落「0028]等)には、ビデオ表示装置を対応付けることが 記載されている。

よって、請求項8、19、34に係る発明は、引用文献1、2記載のものに基 づいて、当業者であれば容易に発明をすることができたものであるから、特許法 第29条第2項の規定により、特許を受けることができない。

- 請求項9、10、20、21、35、36、37
- · 引用文献等 1、2
- 備考

機器を対応付けるものとして、IPアドレス及びMACアドレス以外の識別子 も周知である。

よって、請求項9、10、20、21、35、36、37に係る発明は、引用 文献1、2記載のものに基づいて、当業者であれば容易に発明をすることができ たものであるから、特許法第29条第2項の規定により、特許を受けることがで きない。

- ・請求項 28
- 引用文献等 1、2
- ・備考

対応付けの際にルックアップテーブルを設けることは常套手段に過ぎない。

よって、請求項28に係る発明は、引用文献1、2記載のものに基づいて、当 業者であれば容易に発明をすることができたものであるから、特許法第29条第 2項の規定により、特許を受けることができない。

・請求項 3 8

- · 引用文献等 1、2
- 備考

遠隔制御をインターネットを介して行うことは周知慣用の事項に過ぎない。

よって、請求項38に係る発明は、引用文献1、2記載のものに基づいて、当 業者であれば容易に発明をすることができたものであるから、特許法第29条第 2項の規定により、特許を受けることができない。

## <引用文献等一覧>

- 1. 特表 2 0 0 6 5 2 5 7 7 1 号公報
- 2. 特開2004-356695号公報(周知技術を示す文献)

#### <先行技術文献調査結果の記録>

・調査した分野 IPC H04N 21/00 - 21/858 G06F 13/00

この先行技術文献調査結果の記録は、拒絶理由を構成するものではありません

#### <補正をする際の注意>

- (1)明細書、特許請求の範囲について補正をする場合は、補正により記載を変 更した個所に下線を引いてください(特許法施行規則様式第13備考6、7)。
- (2) 補正は、この出願の出願当初の明細書、特許請求の範囲又は図面に記載し た事項の範囲内で行わなければなりません。また、意見書で、各補正事項につい て補正が適法なものである理由を、根拠となる出願当初の明細書等の記載箇所を 明確に示したうえで主張してください。
- (3)特許請求の範囲について補正をする際には、特許法第17条の2第4項に 違反する補正とならないよう、注意してください。

この拒絶理由通知の内容に関するお問い合わせ又は面接のご希望がありました ら次の連絡先までご連絡ください。

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# Espacenet

Bibliographic data: JP2006525771 (A) - 2006-11-09

SYSTEM AND METHOD FOR COMMUNICATING WITH A DISPLAY DEVICE VIA A NETWORK

Inventor(s):

Applicant(s):

Classification: - international: G06F3/14; H04L12/28; H04L29/06; H04N7/173;

G09G3/00

- cooperative: G06F3/14; H04L12/2803; H04L12/282;

<u>H04L29/06027; H04L65/1043; H04N21/4122;</u> <u>H04N21/4143; H04N21/42204; H04N21/43615;</u> <u>H04N21/44231; H04N21/485;</u> G09G2320/0693;

G09G3/006; H04L2012/2849

Application number:

JP20060514279 20040504

Priority number(s):

<u>US20030467928P 20030505</u>; <u>WO2004US13859 20040504</u>

Alaa muhliah

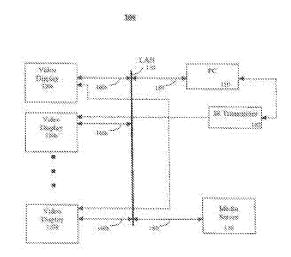
**Also published** WO2004100500 (A2) WO2004100500 (A3) US2006288373 (A1)

**as:** KR20060038924 (A) KR101021132 (B1) more

Abstract not available for JP2006525771 (A)

Abstract of corresponding document: WO2004100500 (A2)

A system (100) and corresponding methods are provided for enabling communication with an electronic apparatus via a network. The system comprises: a first device (140) for transmitting a communication comprising identification parameters associated with a second device (110), wherein the communication is compatible with a communication protocol of a first electronic apparatus (120a, b...k); a first electronic apparatus for communicating with the second device, wherein first electronic apparatus comprises a first



interface for wirelessly communicating with the first device and a second interface for communicating with the second device via a network (130); and a second device for communicating with the first electronic apparatus, with the second device communicating the first electronic apparatus via the network.

(19) 日本国特許庁(JP)

## (12)公表特許公報(A)

(11)特許出顧公表番号

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(51) Int.C1. HO4N 7/173 (2006.01) FΙ HO4N 7/173 630 テーマコード (参考) 5C164

#### 審查請求 未請求 予備審查請求 未請求 (全 25 頁)

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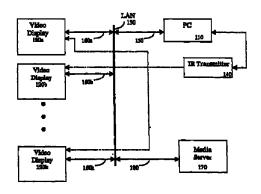
弁理士 伊東 忠重

最終頁に続く

## (54) 【発明の名称】ネットワークを介して表示装置と通信するシステム及び方法

#### (57)【要約】

ネットワークを介して電子装置と通信することを可能に するシステム(100)及び対応の方法が提供される。 そのシステムは、第2の装置(110)に関連する識別 パラメータを有する通信を送信し、通信は第1の電子装 置(120a,b・・・k)の通信プロトコルと互換性 がある第1の装置(140)と、第1の装置と無線通信 する第1のインタフェースと、ネットワーク(130) を介して第2の装置と通信する第2のインタフェースと を有し、第2の装置と通信する第1の電子装置と、ネッ トワークを介して第1の電子装置と通信し、第1の電子 装置と通信する第2の装置とを有する。



#### 【特許請求の範囲】

#### 【請求項1】

ネットワークを介して電子装置と通信する方法であって、

コンピュータに関連する識別パラメータを有する通信を受信し、前記通信は第1の電子 装置の通信プロトコルと互換性があるステップと、

受信した識別パラメータに関連するコンピュータと通信を確立する要求を送信し、前記 要求はネットワークを介して送信されるステップと、

前記要求に対する応答を受信し、前記応答は、前記コンピュータと前記第1の電子装置との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信されるステップと、

前記要求に対する応答を確認し、通信を確立する要求が送信されたコンピュータが、前記受信した識別パラメータに関連するコンピュータであることを確保するステップとを有する方法。

#### 【請求項2】

請求項1に記載の方法であって、

前記コンピュータと前記第1の電子装置との間で通信を確立する要求は、前記通信が望まれる前記第1の装置から送信される方法。

#### 【請求項3】

請求項1に記載の方法であって、

前記第1の電子装置は、工場定義の通信プロトコルを使用する方法。

【請求項4】

請求項1に記載の方法であって、

前記コンピュータに関連する識別パラメータは、前記コンピュータのIPアドレス及びポートを有する方法。

#### 【請求項5】

請求項1に記載の方法であって、

前記コンピュータに関連する識別パラメータを前記第1の装置のメモリに格納することを更に有する方法。

#### 【請求項6】

請求項1に記載の方法であって、

前記コンピュータからコマンドを受信し、前記コマンドは、前記第1の電子装置で所望 の機能を実行することに関連することを更に有する方法。

# 【請求項7】

請求項6に記載の方法であって、

前記所望の機能は、前記第1の装置のサービス、テスト及び制御のうちの1つに関連する方法。

# 【請求項8】

請求項1に記載の方法であって、

前記ネットワークはEthernetネットワークである方法。

#### 【請求項9】

請求項1に記載の方法であって、

前記コンピュータに関連する識別パラメータを有する通信を受信し、前記通信は、第2の電子装置の通信プロトコルと互換性があり、

受信した識別パラメータに関連するコンピュータと通信を確立する要求を送信し、前記要求は前記ネットワークを介して送信され、

前記要求に対する応答を受信し、前記応答は、前記コンピュータと前記第2の電子装置 との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信され、

前記要求に対する応答を確認し、通信を確立する要求が送信されたコンピュータが、前記受信した識別パラメータに関連するコンピュータであることを確保することを更に有する方法。

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請求項9に記載の方法であって、

前記コンピュータからコマンドを受信し、前記コマンドは、前記第2の電子装置で所望の機能を実行することに関連することを更に有する方法。

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#### 【請求項11】

ネットワークを介して電子装置と通信する方法であって、

コンピュータに関連する識別パラメータを有する通信を第1の電子装置に送信し、前記 通信は前記第1の電子装置の通信プロトコルと互換性があり、

前記第1の電子装置と通信を確立する要求を受信し、前記要求はネットワークを介して 送信され、

前記要求に対する応答を送信し、前記応答は、前記コンピュータと前記第1の電子装置との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信されることを 有する方法。

# 【請求項12】

請求項11に記載の方法であって、

前記コンピュータに関連する識別パラメータを有する通信は、前記第1の電子装置により使用される独自仕様のプロトコルを使用する方法。

#### 【請求項13】

請求項11に記載の方法であって、

前記識別パラメータは、前記コンピュータのIPアドレス及びポートを有する方法。

#### 【請求項14】

請求項11に記載の方法であって、

前記第1の電子装置にコマンドを送信し、前記コマンドは、前記第1の電子装置で所望の機能を実行することに関連することを更に有する方法。

#### 【請求項15】

請求項14に記載の方法であって、

前記所望の機能は、前記第1の装置のサービス、テスト及び制御のうちの1つに関連する方法。

# 【請求項16】

請求項11に記載の方法であって、

前記ネットワークはEthernetネットワークである方法。

# 【請求項17】

請求項11に記載の方法であって、

前記コンピュータに関連する識別パラメータを有する通信を第2の電子装置に送信し、 前記通信は、前記第2の電子装置の通信プロトコルと互換性があり、

前記第2の電子装置と通信を確立する要求を受信し、前記要求は前記ネットワークを介して送信され、

前記要求に対する応答を送信し、前記応答は、前記コンピュータと前記第2の電子装置との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信されることを 更に有する方法。

#### 【請求項18】

請求項17に記載の方法であって、

前記第2の電子装置にコマンドを受信し、前記コマンドは、前記第2の電子装置で所望の機能を実行することに関連することを更に有する方法。

#### 【請求項19】

ネットワークを介して電子装置と通信するシステムであって、

第2の装置に関連する識別パラメータを有する通信を送信し、前記通信は第1の電子装置の通信プロトコルと互換性がある第1の装置と、

前記第1の装置と無線通信する第1のインタフェースと、ネットワークを介して前記第 2の装置と通信する第2のインタフェースとを有し、前記第2の装置と通信する第1の電 10

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子装置と、

前記ネットワークを介して前記第1の電子装置と通信し、前記第1の電子装置と通信する第2の装置と

を有するシステム。

#### 【請求項20】

請求項19に記載のシステムであって、

前記第1の装置は、赤外線送信機であるシステム。

#### 【請求項21】

請求項19に記載のシステムであって、

前記第1の装置により送信される識別パラメータは、前記第2の装置に関連するインタ 10 ーネットプロトコルアドレス及びポートを有するシステム。

#### 【請求項22】

請求項19に記載のシステムであって、

前記第2の装置はコンピュータであるシステム。

#### 【請求項23】

請求項19に記載のシステムであって、

前記第1の電子装置は、ビデオ表示装置であるシステム。

#### 【請求項24】

請求項19に記載のシステムであって、

前記ネットワークはEthernetネットワークであるシステム。

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#### 【請求項25】

請求項19に記載のシステムであって、

前記第1の電子装置の前記第1のインタフェースは、赤外線信号をデコードするシステム。

# 【請求項26】

請求項19に記載のシステムであって、

前記第1の電子装置は、前記第2の装置に関連する識別パラメータを格納するメモリを 更に有するシステム。

# 【請求項27】

請求項19に記載のシステムであって、

前記第2のインタフェースはEthernetコネクタであるシステム。

#### 【請求項28】

請求項19に記載のシステムであって、

前記第1の電子装置は、前記第1の電子装置で所望の機能を実行することに関連する前記第2の装置により送信されたコマンドを実行するシステム。

#### 【請求項29】

請求項19に記載のシステムであって、

請求項19に記載のシステムであって、

前記第1及び第2の装置は、前記第1の電子装置と互換性のある独自仕様のプロトコルを使用するシステム。

# 【請求項30】

前記第1の電子装置が前記第2の装置と通信を確立した後に、前記ネットワークを介して前記第2の装置と通信する第2の電子装置を更に有するシステム。

#### 【請求項31】

請求項30に記載のシステムであって、

前記第2の電子装置はビデオ表示装置であるシステム。

# 【請求項32】

ネットワークを介して電子装置と通信するために記録されたコンピュータプログラムロジックを有するコンピュータ使用可能媒体を有するコンピュータプログラムプロダクトであって、

前記コンピュータプログラムロジックは、

コンピュータに関連する識別パラメータを有する通信を受信し、前記通信は電子装置の 通信プロトコルと互換性があるプログラムコードと、

受信した識別パラメータに関連するコンピュータと通信を確立する要求を送信し、前記 要求はネットワークを介して送信されるプログラムコードと、

前記要求に対する応答を受信し、前記応答は、前記コンピュータと前記電子装置との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信されるプログラムコードと、

前記要求に対する応答を確認し、通信を確立する要求が送信されたコンピュータが、前 記受信した識別パラメータに関連するコンピュータであることを確保するプログラムコー ドン

を有するコンピュータプログラムプロダクト。

#### 【請求項33】

ネットワークを介して電子装置と通信するために記録されたコンピュータプログラムロジックを有するコンピュータ使用可能媒体を有するコンピュータプログラムプロダクトであって、

前記コンピュータプログラムロジックは、

コンピュータに関連する識別パラメータを有する通信を電子装置に送信し、前記通信は 前記電子装置の通信プロトコルと互換性があるプログラムコードと、

前記電子装置と通信を確立する要求を受信し、前記要求はネットワークを介して送信さ 20 れるプログラムコードと、

前記要求に対する応答を送信し、前記応答は、前記コンピュータと前記電子装置との間で通信を確立しようとし、前記応答は前記ネットワークを介して送信されるプログラムコードと

を有するコンピュータプログラムプロダクト。

# 【請求項34】

Ethernetネットワークを介してビデオ表示装置と通信するシステムであって、前記ビデオ表示装置により使用される通信プロトコルを介してビデオ表示装置に赤外線信号を無線送信し、前記赤外線信号は、コンピュータに関連するインターネットプロトコルアドレス及びポートを有する赤外線送信機と、

前記赤外線信号を受信し、E thernetネットワークを介して前記コンピュータと通信し、前記赤外線信号を受信する赤外線受信機と、前記E thernetネットワークに接続するE thernetコネクタとを有するビデオ表示装置と、

前記ビデオ表示装置で所望の機能を実行し、前記Ethernetネットワークに接続するEthernetコネクタと、前記ビデオ表示装置で実行される所望の機能を入力する入力手段を有するコンピュータと

を有するシステム。

#### 【請求項35】

表示装置で使用される表示技術に対応するメディアオブジェクトを受信する方法であって、

前記表示装置で使用される表示技術に関連する表示装置パラメータを決定するステップと、

前記パラメータを通信するステップと、

前記メディアオブジェクトを受信し、前記メディアオブジェクトは前記表示装置で使用 される表示技術に対応するステップと

を有する方法。

# 【請求項36】

請求項35に記載の方法であって、

使用される表示技術を示す前記パラメータは、陰極線管、有機発光ダイオード、液晶ディスプレイ、シリコン上液晶、デジタル光プロジェクト及びプラズマのうち少なくとも1

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つである方法。

#### 【請求項37】

請求項36に記載の方法であって、

前記メディアオブジェクトは、表示技術に適したフォーマットでエンコードされる方法

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#### 【請求項38】

請求項37に記載の方法であって、

前記メディアオブジェクトは、前記表示技術用に変更された視覚属性を有し、 前記視覚属性は、前記メディアオブジェクトが異なる表示技術を使用した表示装置に表示されるときに変更される方法。

【請求項39】

請求項38に記載の方法であって、

前記メディアオブジェクトは、デジタルテレビ放送システムのサブチャネルで送信され 、前記変更されたメディアオブジェクトは、異なるサブチャネルで送信される方法。

#### 【請求項40】

表示装置に使用される表示技術に対応したメディアオブジェクトを送信する方法であって、

前記表示装置に使用される表示技術に関係する表示装置パラメータを決定し、前記パラメータは、前記表示装置からの前記メディアオブジェクトの要求の一部として受信されるステップと、

前記表示装置に前記メディアオブジェクトを送信し、前記メディアオブジェクトは、前記表示装置に使用される表示技術に対応するステップと、

を有する方法。

#### 【請求項41】

請求項40に記載の方法であって、

使用される表示技術を示す前記パラメータは、陰極線管、有機発光ダイオード、液晶ディスプレイ、シリコン上液晶、デジタル光プロジェクト及びプラズマのうち少なくとも1つである方法。

# 【請求項42】

請求項41に記載の方法であって、

前記メディアオブジェクトは、表示技術に適したフォーマットでエンコードされる方法

#### 【請求項43】

請求項42に記載の方法であって、

前記メディアオブジェクトは、前記表示技術用に変更された視覚属性を有し、 前記視覚属性は、前記メディアオブジェクトが異なる表示技術を使用した表示装置に表 示されるときに変更される方法。

#### 【請求項44】

請求項43に記載の方法であって、

前記メディアオブジェクトは、デジタルテレビ放送システムのサブチャネルで送信され 40 、前記変更されたメディアオブジェクトは、異なるサブチャネルで送信される方法。

【発明の詳細な説明】

# 【技術分野】

#### $[0 \ 0 \ 0 \ 1]$

本発明は、電子装置との通信に関し、特にネットワークを介してビデオ表示装置と通信 するシステム及び方法に関する。

## 【背景技術】

#### [00002]

ビデオ表示装置のような電子装置は、ネットワーク接続を通じてコンピュータを介して 制御され得る。音量又は色調節の変更のような調整は、テレビのようなビデオ表示装置の 5

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ノブを調整することにより実行されるのではなく、ビデオ表示装置のスクリーンのメニューとインタフェースすることにより、又は赤外線リモコンを介して実行される。コンピュータ制御のビデオ表示装置の採用は、現代の表示装置の特徴及び機能を拡張してきた。例えば、コンピュータ制御のビデオ表示装置は、サービス又は修理について電子的に診断され、自動テストを受け、様々な機能を実行するように制御され得る。更に、これらのビデオ表示装置は、Ethernet、トークンリング、非同期転送モード(ATM)等のようなネットワークプロトコルを使用してローカルエリアネットワーク(LAN)を介して相互に接続され得る。

# [0003]

コンピュータ制御可能ビデオ表示装置のサービス又はテストのような所望の機能を実行するために、ビデオ表示装置製造者及びサービスプロバイダにより複数の通信技術が開発され、このような動作を実現している。これらの技術は、一般的にコンピュータと赤外線送信機とを必要とし、これらはコンピュータ制御のビデオ表示装置と通信するためにサービス技術者により使用される。コンピュータとビデオ表示装置との間の通信チャネルは、場合によってはEthernet接続で行われる。しかし、セキュリティの目的で、コンピュータ制御のビデオ表示装置は、一般的にビデオ表示装置と互換性のあるコンピュータへのアクセスのみを認め、それによって、無許可のユーザがビデオ表示装置へのアクセスを得ることを回避する。

#### $[0 \ 0 \ 0 \ 4]$

コンピュータを介してビデオ表示装置と通信するために、ビデオ表示装置のIPアドレ 20 スとポートとを認識しているサービス技術者は、そのコンピュータのIPアドレスとポートとを再構成する。サービス技術者によるネットワーク知識の欠如により、及びコンピュータのIPアドレスの構成及び復旧を自動化する機能を除外するオペレーティングシステムの増加により、この処理はいくらか禁じられ得る。更に、現在の通信技術は、サービス技術者がネットワークで同時に1つより多いビデオ表示装置と通信することを妨げている

# 【発明の開示】

【発明が解決しようとする課題】

#### [0005]

従って、サービス技術者がネットワーク環境の広範囲の知識を必要としないネットワー 30 クを介して、ビデオ表示装置のような1つ以上の電子装置と通信するシステム及び方法の必要性が存在する。

【課題を解決するための手段】

# [0006]

本発明の一実施例では、ネットワークを介して電子装置と通信する方法が提示される。その方法は、コンピュータに関連する識別パラメータを有する通信を受信し、通信は第1の電子装置の通信プロトコルと互換性があるステップと、受信した識別パラメータに関連するコンピュータと通信を確立する要求を送信し、要求はネットワークを介して送信されるステップと、要求に対する応答を受信し、応答は、コンピュータと第1の電子装置との間で通信を確立しようとし、応答はネットワークを介して送信されるステップと、要求に対する応答を確認し、通信を確立する要求が送信されたコンピュータが、受信した識別パラメータに関連するコンピュータであることを確保するステップとを有する。前記の方法を実装するシステムも開示される。

# [0007]

本発明の他の実施例では、表示装置の特性に基づいてメディアオブジェクトを受信するメディアサーバと通信する方法が提示される。その方法は、表示装置に使用される表示技術の形式を決定し、それにより、表示装置は、その表示装置用の視覚的再生に適したメディアオブジェクトを受信する。異なる表示技術を備えた表示装置は、同じ源素材から生成された異なるメディアオブジェクトを受信する。

【発明を実施するための最良の形態】

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ここで使用される "メディアオブジェクト"という用語は、オーディオ、ビデオ、テキスト、マルチメディアデータファイル及びストリーミングメディアファイルを含む。マルチメディアオブジェクトは、テキスト、画像、ビデオ及びオーディオデータの何らかの組み合わせを有する。ストリーミングメディアは、インターネット、衛星又は他の通信ネットワークを介してユーザに配信され、全体ファイルの配信が完了する前にユーザのコンピュータ/装置で再生し始めるオーディオ、ビデオ、マルチメディア、テキスト及びインタラクティブデータファイルを有する。メディアオブジェクトは、インターネット、衛星(デジタル衛星システム、デジタルビデオシステムー衛星)、ケーブル、デジタル加入者線、T1回線、無線ネットワーク、又はメディアオブジェクトを配信可能な他の配信システムを含み、如何なる通信ネットワークで送信されてもよい。

(8)

[0009]

メディアオブジェクトの内容の例は、歌曲、政治演説、ニュース放送、映画予告、映画 、テレビショーの放送、ラジオ放送、金融の電話会議、生のコンサート、ウェブカメラの 映像、及び他の特別のイベントを含む。メディアオブジェクトは、REALAUIDO( 登録商標)、REALVIDEO(登録商標)、REALMEDIA(登録商標)、AP PLE QUICKTIME (登録商標)、MICROSOFT WINDOWS (登録 商標)のMEDIA FORMAT、QUICKTIME(登録商標)、MPEG-2( MOTION PICTURES EXPERTS GROUP) VIDEO COM PRESSION · MPEG-4 VIDEO AND/OR AUIDIO COMP RESSION, JOINT VIDEO TEAM COMPRESSION FOR MAT (MPEG-4 part 10 AVC · H · 264) · MPEG-2 LAY III AUDIO、MP3(登録商標)を含み、様々なフォーマットにエンコー ドされる。一般的に、メディアオブジェクトは、特定のフィーマットでの互換性を示す拡 張子(サフィックス)で示される。例えば、拡張子・ram、・rm、・rpmのうち1 つで終わるメディアオブジェクト(例えばオーディオ及びビデオファイル)は、REAL MEDIA(登録商標)のフォーマットと互換性がある。ファイル拡張子及びその互換フ オーマットのいくつかの例が図1に記載されている。メディア形式、拡張子及び互換フォ ーマットの更に包括的なリストは、h t t p://www.bowers.cc/ext ensions2·htmに見出され得る。

[0010]

# 【表1】

フォーマット	拡張子
REALMEDIA®	.ram, .rm, .rpm
APPLE	.mov, .qif
QUICKTIME®	
MICROSOFT	.wma, .cmr, .avi
WINDOWS® MEDIA	
PLAYER	
MACROMEDIA	.swf, .swl
FLASH	
MPEG	.mpg, .mpa, .mp1,
	.mp2
MPEG-2 LAYER III	.mp3, .m3a, .m3u
Audio	

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本発明の図示の実施例は、"ほぼ動画品質"のビデオ提示を表すビデオデータを有するメディアオブジェクトで動作する。このようなメディアオブジェクトは、MPEG-2(Motion Picture Standards Group Standard ISO/IEC 13818-1:2000)及びITU-T H·264/MPEG AVC(ISO/IEC 14496-10)のような様々なフォーマットでエンコードされてもよく、非圧縮のビデオでもよい。本発明はまた、Advanced Television System (ATSC)又はDigital Video Broadcasts (DVB)互換のビデオ信号で使用されるような電波放送プログラムで動作する点に留意すべきである。

#### $[0\ 0\ 1\ 1\ ]$

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図 1 は、本発明の例示的な実施例による電子装置と通信するシステム  $1\ 0\ 0$  のブロック図である。図 1 に示すように、システム  $1\ 0\ 0$  は、とりわけ、パーソナルコンピュータ(P C )  $1\ 1\ 0$  と、電子装置(例えばビデオ表示装置  $1\ 2\ 0$  a , b ・・・ k )と、赤外線(I R )送信機  $1\ 4\ 0$  と、メディアサーバ  $1\ 7\ 0$  とを有する。 P C  $1\ 1\ 0$  及びビデオ表示装置  $1\ 2\ 0$  a , b ・・・ k は、接続手段  $1\ 5\ 0$  、  $1\ 6\ 0$  a , b ,・・・ k 及び接続手段  $1\ 8\ 0$  の対を介してローカルエリアネットワーク(L A N )  $1\ 3\ 0$  で相互に接続されている。

# [0012]

PC110は、ポータブル又はラップトップコンピュータ、携帯情報端末(PDA)等でもよく、ビデオ表示装置120a,b・・・kのうち1つの機能セットをサポートすることができる工場定義又は独自仕様のプロトコルのような通信プロトコルを使用してビデオ表示装置120a,b・・・kと通信することができる。ビデオ表示装置120a,b・・・kは、高解像度テレビ(EDTV:enhancedーdefinition television)及び高品位テレビ(HDTV:highーdefinition video television)機能を有するデジタルビデオ表示装置でもよく、プラズマ、液晶、有機発光、又は陰極線管(CRT)ディスプレイ等でもよい。ビデオ表示装置120a,b・・・kはまた、ビデオ表示装置120a,b・・・kのインタフェースメニューのような外部インタフェース、接続手段150、160a,b・・・k又は赤外線受信機を介して、PC110及びIR送信機140のような装置と通信可能である。IR送信機140は、赤外線送信機能を有するユニバーサルリモコンのような一般のビデオ表示装置のリモコンでもよい。ビデオ表示装置120a,b・・・kはまた、REAL

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PLAYER又はWINDOWS MEDIA PLAYERのようなメディアプレイヤアプリケーションを使用して受信したメディアオブジェクトをデコード可能であることが好ましい。

#### [ 0 0 1 3 ]

図1の電子装置は、複数のビデオ表示装置120a,b・・・kのうちの1つとして図示されているが、電子装置は、衛星受信機、デジタルビデオディスク(DVD)プレイヤ、ステレオ装置等、他のパーソナルコンピュータ、セットトップボックスのような如何なる数のネットワーク装置でもよく、ネットワークで接続されてクライアント・サーバ型又はピア・ツー・ピア型アーキテクチャを介してアクセスされてもよい。

#### $[0 \ 0 \ 1 \ 4]$

LAN130は、10BaseT、100BaseT若しくは1000BaseT標準、トークンリング、非同期転送モード(ATM)等、又はビデオ表示装置のインターネットプロトコル(IP)アドレスの自動構成及び復旧を可能にする如何なるネットワークプロトコルを使用したEthernetのようなネットワークプロトコルを使用してもよい。接続手段150、160a,b・・・k及び接続手段180は、例えばEthernetネットワークで、PC110とビデオ表示装置120a,b・・・k及び接続手段180はまた、RJ-45形式のEthernetコネクタで終端処理されてもよいが、他の接続も使用可能である。

#### $[0\ 0\ 1\ 5\ ]$

接続手段150及び180は、インターネットのようなネットワーク構造の使用を通じてLAN130に接続されてもよいことも考えられる。ネットワーク構造の使用は、当該技術分野において既知の如何なる形式のネットワークでもよい。このようなネットワークは、サーバのサーバ側のリソースとクライアントのクライアント側のリソースとの間で複数の接続に適合できることが好ましく、このような接続は、UDP型、TCP/IP型又はその混合である。ネットワーク150により適合された帯域は、T1接続(1・5メガビット/秒(Mbps))、T3接続(45Mbps)、DS3接続(45Mbps)、OC3接続(155Mbps)、OC12(248000Mbps)等のような広帯域接続であることが好ましい。

#### [0016]

メディアサーバ170は、複数のメディアオブジェクトを格納可能なテラバイト及び/又はギガバイトの容量を有するハードドライブのマトリクスのような記憶装置である。メディアサーバ170はまた、LAN130を介して接続手段180を通じて表示装置120a・・・k にこのようなメディアオブジェクトを配信することができる。

#### $[0\ 0\ 1\ 7\ ]$

図2は、本発明で使用される PC2000 のブロック図である。 PC200 は、図1の PC110 の代わりに又はそれと共に使用されてもよい。 PC200 は、中央処理装置(CPU)210 とメモリ220とを有し、データバス250を介して出力230及び出力240に接続されている。メモリ220は、ランダムアクセスメモリ(RAM)260 と読み取り専用メモリ(ROM)270 とを有する。メモリ220はまた、データベース、デ40ィスクドライブ、テープドライブ等、又はその組み合わせを有し得る。 RAM260 は、CPU210 のプログラムの実行中に使用されるデータを格納するデータメモリとして機能し、作業領域として使用される。 ROM270 は、CPU210 で実行されるプログラムを格納するプログラムメモリとして機能する。入力230は、キーボード、マウス、接続手段、入力装置等により構成され、出力240は、液晶ディスプレイ(LCD)、CRTディスプレイ、プリンタ、接続手段等により構成される。

# [0018]

CPU210及びメモリ220は、電子装置(例えば図1のビデオ表示装置120a, b・・・k)で使用される複数の通信プロトコルを介して通信することに関連するデータ を有することがわかる。ビデオ表示装置120a,b・・・kと通信することに関連する 50 データは、とりわけ、PC200のIPアドレス、ポート及びパスワードのような識別パラメータを有する。更に、PC200は、そのメモリ220に格納されたソフトウェアを有し、ビデオ表示装置120a,b,・・・kを診断して修理する方法をサービス技術者に提供する。このソフトウェアは、ビデオ表示装置の問題のサービス及び診断を行うために、Thomsonから入手可能なCHIPPER CHECK(登録商標)のようなビデオ表示装置のサービス技術者により一般的に使用される形式のものでもよい。

#### [0019]

図 3 は、本発明で使用されるビデオ表示装置の制御システム 3 0 0 のブロック図である。制御システム 3 0 0 は、とりわけ、マイクロプロセッサ( $\mu$  P) 3 1 0 と、電気消去可能読み取り専用メモリ(E E P R O M) 3 2 0 と、出力装置 3 4 0 とを有する。マイクロプロセッサ 3 1 0、E E P R O M 3 2 0 及び出力装置 3 4 0 は、データバス 3 5 0 を介して相互に通信する。入力 3 6 0 はマイクロプロセッサ 3 1 0 に接続されており、バックエンドプロセッサ 3 3 0 はデータバス 3 5 0 に接続されている。

# [0020]

マイクロプロセッサ 310 は、発光ダイオード(LED)、デジタルビデオインタフェース(例えば高解像度マルチメディアインタフェース(HDMI:high definition multimedia interface)1394)、赤外線送信機等のような出力装置340と、バックエンドプロセッサ330と通信し、図1のビデオ表示装置120a,b・・・kのうちの1つのようなデジタルビデオ表示装置を制御する。マイクロプロセッサ310はまた、バックエンドプロセッサ330と通信し、ビデオ処理のようなバックエンド処理を実行する。バックエンドプロセッサ330はまた、出力装置340に結合されており、例えばディスプレイバラメータを制御し、ビデオ品質を改善する。マイクロプロセッサ310はまた、ビデオ表示装置のフロントパネル、リモコン、EEPROM320及びデータバス350に接続されている何らかの装置から入力320を受信する。EEPROM320は、ビデオ表示装置120a,b・・・kのうちの1つを制御するためにマイクロプロセッサにより使用される値を格納する。これらの値は、例えば調節情報と初期化信号と顧客情報とを含んでもよい。例示的な顧客情報は、チャネル走査リストと色と輝度と音量レベルとを含んでもよい。

#### [0021]

EEPROM320は、ビデオ表示装置120a,b・・・kのうちの1つが作られたときにEEPROM320に格納されたビデオ表示装置120a,b・・・kのうちの1つに関連する値のような情報を有する。EEPROM320はまた、PC110又はIR送信機140のような外部装置からそれに書き込まれた情報を有する機能を有する。従って、例えば、EEPROM320は、PC110からそれに書き込まれた識別パラメータを格納することができる。これらのパラメータは、PC110のIPアドレス及びポートを有してもよく、それにより、PC110がビデオ表示装置120a,b・・・kのうちの1つと通信すると、PC110がビデオ表示装置120a,b・・・kのうちの1つにコマンドを送信し、ビデオ表示装置120a,b・・・kのうちの1つで複数の動作を実行する。

#### [0022]

図4は、本発明の例示的な実施例によるビデオ表示装置と通信するシステムの動作400を示したフローチャートである。図4に示す通り、サービス技術者は、例えば図1のビデオ表示装置120aに通信を送信する(ステップ410)。通信は、例えば図1のIR送信機140により送信される。通信はまた、ビデオ表示装置120aのスクリーンのインタフェースメニューにアクセスして通信を入力することにより、ビデオ表示装置120aに対してPC(例えば図1のPC110)を特定することに関連するパラメータを有する。これらのパラメータは、とりわけ、PC110のIPアドレス及びポートを有する。通信は、ビデオ表示装置120aと互換性のある工場定義のプロトコル又は独自仕様のプロトコルを介して送信

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されることがわかる。

#### [0023]

通信が送信された後に、それはビデオ表示装置 120 aにより受信される(ステップ 420)。ビデオ表示装置 120 aに配置された赤外線受信機がこの通信を受信する。通信の受信時に、ビデオ表示装置 120 aは、通信に関連する識別パラメータを図 3 の EEP R O M 320 のようなメモリに格納する(ステップ 430)。通信に安全であると考えられるビデオ表示装置 120 により使用されるプロトコルを介して通信が送信されるため、このことが生じ、それによって通信に関連するデータが格納されることが可能になる。 P C 110 の 1 P 2 F 2 D 2 R 2 D 2 R 2 D 2 R 2 D 2 R 2 D 2 R 2 D 2 R 2 D 2 R 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2 D 2

#### [0024]

更なる通信を確立するためのビデオ表示装置 120 a の要求を受信すると、PC 110 は、ビデオ表示装置 120 a が通信するべき装置であることを示す通信を送信することにより、要求に応答する(ステップ 450)。それによってハンドシェイクを完了する。ステップ 410 において PC 110 の IPアドレス及びポートがサービス技術者によりビデ 20 オ表示装置 120 a のメモリにプログラムされているため、このハンドシェイクは、ビデオ表示装置 120 a 及び PC 110 が相互に接続されており、詐称者又は無許可のユーザでないことを確保する。この構成では、ビデオ表示装置 120 a はクライアント・サーバ型アーキテクチャのクライアントとして機能し、PC 110 はリモートサーバとして機能することがわかる。

# [0025]

ビデオ表示装置120aとPC110との間の安全な通信チャネルが確立された後に、 PC110は、ビデオ表示装置120aと通信し、例えばサービス又はテストに関して、 ビデオ表示装置で所望の機能を実行してもよい(ステップ460)。実行される機能は、 色、外形、ビデオ、ステレオ若しくはピクチャ・イン・ピクチャ(PIP)の調節、又は 30 画質に関連する様々な較正値に対する調整等のうちの1つでもよい。

# [0026]

本発明の代替実施例では、図1のPC110は、ビデオ表示装置120a,b・・・kのような1つより多い電子装置と通信することができる。このことは、(図4のステップ 410-450で前述したものと同じ又は類似の処理を実行することにより)PC110 がビデオ表示装置120aと既に通信しているときに、例えばビデオ表示装置120bにPC110のIPアドレス及びボートを送信することにより実現される。これを実現するために、PC110は、ビデオ表示装置120bに異なるボートを割り当てる。ステップ 410-450が完了すると、PC110はビデオ表示装置120bで所望の機能を実行し始める。1つより 40 多いビデオ表示装置で機能を実行しているときに、PC110は、LCDディスプレイのような出力にビデオ表示装置毎に異なるウィンドウを有することができる。

# [0027]

(ビデオ表示装置120a用の)PC110のIPアドレス及びポートがビデオ表示装置120aに送信されるのと同時に、(ビデオ表示装置120b用の)PC110のIPアドレス及びポートはビデオ表示装置120bに送信され得ることが更にわかる。それによって、サービス技術者が同時に1つより多いビデオ表示装置と接続して通信することが可能になる。

#### [0028]

1つより多いビデオ表示装置と通信することにより、同時に1つのビデオ表示装置で機 50

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能を実行することに限定されないため、PC110はサービス技術者に柔軟性を提供する。更に、1つより多いビデオ表示装置又は電子装置の制御を有することにより、本発明のサービス技術者及び/又は許可されたユーザは、例えば複数のビデオ表示装置を同時にオフ又はオンしてもよく、チャネルや音量等を変更してもよく、また、例えば複数のDVDプレイヤで同じ映画を視聴してもよい。

#### [0029]

本発明の代替の変形では、コンピュータの識別情報は、Bluetooth、Institute of Electrical and Electronics Engineers (IEEE) 802・11又は赤外線通信 (IrDA) 無線伝送技術を使用して、送信機から無線で送信されてもよい。

#### [0030]

図5は、ビデオ表示装置の特性に応じてビデオ表示装置と通信し、メディアオブジェクトを受信する方法500を開示したフローチャートである。特に、OLED、プラズマ、LCD等のようなビデオ表示装置の技術の発達と共に、表示装置でメディアサービスを処理する際に変更が存在してもよいことがわかる。例えば、MPEG-2ビデオコーデックでエンコードされたメディアサービスは、陰極線管(CRT)表示装置で表示されたときには動画品質でもよいが、OLED表示装置で処理されたときには不鮮明でもよい。

#### $[0 \ 0 \ 3 \ 1]$

前述の問題の原因は、メディアサービスをエンコードするために使用されるエンコード方法に関係する。一般的に、エンコーダは、元の源素材からエンコード後のメディアオブジェクトのサイズを減少させる圧縮技術を使用する。例えば、MPEG-2型のエンコーダは、ビデオ形式の源素材をエンコードするために使用されると、 $40\sim50:1$ の圧縮を実現する。一部の圧縮は、人間がメディアオブジェクトをどのように視覚的及び聴覚的に認識するかに関係する精神測定関数として知られる技術を利用する。その技術では、人間がデータの一部の損失を認識することなく、データの一部が源素材から除去され得る。MPEG-2及び他のエンコード技術の発達は、どの視覚又はオーディオ情報が保持される必要があり、どれが源素材から除去され得るかを決定するために人間がテストすることで発達した。人間の視覚認識のテストについての背景には、ITU Recommendation BT・500-8、"Methodology for Subjective Assessment of the Quality of Television Pictures"、1998

#### [0032]

新しいディスプレイ技術の発達と共に、第2の表示装置(CRTディスプレイ)で明らかでないように(例えばOLED表示装置で)選択されたエンコード技術による加工物を人間が気付かないことがある。この例を続けると、人間は、CRTで人間に明らかでない、OLED表示装置でMPEG-2エンコードのビデオに使用されたマクロブロックの加工物に気付く場合がある。これは、ビデオ画像を処理するために使用される表示装置技術の基礎の物理特性によることがある。従って、CRTのスクリーンリフレッシュ技術は、OLED表示装置のスクリーンリフレッシュ技術よりMPEG-2のそのような加工物を隠すのに優れていることがある。

# [ 0 0 3 3 ]

人間の認識のこのような欠如を認識して、本発明は、そのようなメディアオブジェクトを処理するために使用される表示装置に適したエンコードフォーマットで、メディアオブジェクトを配信するアーキテクチャを開示する。図1を参照することによる本発明の例示的な実施例では、ビデオ表示装置120aはCRT型のビデオ表示装置を表し、ビデオ表示装置120bはOLED表示装置を表す。双方の表示装置は、接続手段180を通じてメディアサーバ170に接続されている。

# [0034]

ステップ 5 1 0 において、表示装置 1 2 0 a は、メディアサーバ 1 7 0 からメディアオブジェクトを要求する。例えば、メディアオブジェクトの要求は、ビデオオンデマンドシー:

ステムのビデオを通じて配信された映画用のもの、又はインターネットを通じてストリーミングメディアとして配信されたメディアオブジェクトである。ステップ 5 2 0 において、メディアサーバ 1 7 0 はこの要求を受信し、表示装置 1 2 0 a の機能を決定する。本発明の好ましい実施例では、表示装置 1 2 0 a は、メディアサービスを処理するときにその装置で使用される表示装置の技術を識別する装置パラメータの一部としての識別パラメータを送信する。例えば、表示装置 1 2 0 a は、表示装置を C R T 型のテレビとして識別するメタデータを送信する。表 2 は、拡張マークアップ言語フォーマットを使用して表示装置の技術を識別するために使用され得るメタデータフィールド D I S P L A Y D E V I C E と C R T く/ D I S P L A Y D E V I C E > として受信したメタデータは、 C R T 型の表示装置の技術を表す。本発明の原理に従って他のメタデータのフォーマットも使用され得る。

[0035]

【表2】

ディスプレイ技術	値
陰極線管	CRT
有機発光ダイオード	OLE
液晶ディスプレイ	LCD
シリコン上液晶	LCO
デジタル光プロジェクタ	DLP
プラズマ	PLA

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代替として、メディアオブジェクトについての表示装置120aによる要求に基づいて、表示装置120aのIP及び/又はポートアドレスは、要求の一部として送信される。メディアサーバ170は、要求の一部であるIPアドレス及び/又はポートアドレス情報により表示装置を識別するために使用される技術を識別する情報を含むデータベースを有することが好ましい。この情報は、ネットワーク接続を通じて表示装置を登録したときに、ユーザにより入力され、メディアサーバ170により格納される。

# [0036]

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ステップ 5 3 0 は、表示装置 1 2 0 a が識別パラメータをメディアサーバ 1 7 0 に通信する任意選択のステップを表す。一般的に、この通信は、メディアサーバ 1 7 0 が表示装置に使用される表示技術を要求することにより行われるクエリに応じるものである。識別パラメータのこの通信は、表 2 に示すメタデータと類似することが好ましいが、識別パラメータの他のフォーマットが使用されてもよい。

# [0037]

メディアサーバ170により受信された識別パラメータに応じて、ステップ540において、メディアサーバは、表示装置に使用される表示技術に対応したビデオ装置120aにメディアオブジェクトを通信する。好ましい実施例では、メディアサーバ170は、表示装置の技術について最適なビデオ画像を作るものとして予め定められたエンコード技術に対して表示技術を指定する参照テーブル又はデータベースエントリーを利用する。例えば、Windows Media 9 エンコードのメディアオブジェクトが最適なビデオ提示を作ることがあるOLEDディスプレイに対して、CRTでは、MPEG-2 エンコードのメディアオブジェクトが最適のビデオ提示を作ると決定されてもよい。メディアサーバ170のオペレータにより行われた決定に従って、如何なるエンコードフォーマットが選択されてもよい。表示装置の技術における更なる改善と共に新しいエンコード技術が作られると、これらの決定が変化してもよい。

#### [0038]

好ましい実施例では、メディアサーバ170は、異なるフォーマットでエンコードされたメディアオブジェクトと同じ源素材の複数のバージョンを格納する。この例では、メデ

ィアサーバ170は、MPEG-2フォーマットでエンコードされたメディアオブジェクト及びWindows Media 9フォーマットでエンコードされたメディアオブジェクトとして映画の源素材を格納する。代替として、メディアサーバ170は、前述の表示技術についての指定のエンコードフォーマットに従って、エンコーダを使用してリアルタイム又はほぼリアルタイムに、メディアオブジェクトの源素材を適切なフォーマットにエンコードする。

#### [0039]

次に、メディアサーバ170は、この例ではCRTとして指定された表示装置120aにMPEG-2エンコードのメディアオブジェクトを送信する。メディアオブジェクトは、接続手段180及びLAN130を通じて表示装置120aに送信される。表示装置120bが同じ映画を要求する場合には、メディアサーバ170は、前述のように、Windows Media 9 エンコードのメディアオブジェクトをOLED型の表示装置に送信する。他のエンコードフォーマット及び表示装置も、本発明の原理に従って考えられる。

## [0040]

更に、メディアオブジェクトのフォーマット毎に、メディアオブジェクトを生成するために使用された源素材の視覚属性は、特定の表示技術に最適のビデオ品質を作るために変更される。変更される視覚属性は、色、色合い、コントラスト、色相、彩度、輝度、フレームレート、フィールド毎のライン、画素等を含む。視覚属性は、特定の技術の表示装置での最適な視覚ビデオを提供するために実験的に決定されたパラメータに従って選択及び 20 変更される。

#### [0041]

ステップ 550において、メディアオブジェクトを受信した表示装置は、ビデオとしてオブジェクトを処理する。この例では、各表示装置は、受信したメディアサービスをデコード可能なデコーダを有する。従って、表示装置 120 a は MPEG-2 ビデオデコーダを有し、表示装置 120 b は 120 b は 120 b は 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c 120 c

#### [0042]

本発明の代替実施例では、マルチキャストされたデジタル放送のサブチャネル又は"マイナー"チャネルが、ATSC又はDVB型のテレビシステムに使用されるメディアオブジェクトの複数のバージョンを送信するために使用されてもよい。特に、デジタル放送システムのサブチャネルは、第1の技術の表示装置用のプログラムを運ぶように指定され、第2の技術の表示装置用のプログラムを運ぶために第2のサブチャネルを利用してもよい。この場合、メディアオブジェクトは同じ源素材から生成される。例えば、プログラムがLCDスクリーンでの表示用に色補正された第2のサブチャネルで運ばれるプログラムに対して、第1のサブチャネルで送信されるプログラムは、プラズマ装置での表示用に変更されたプログラムの色のガンマ値を有してもよい。プログラムの他の属性も、本発明の原理に従って変更されてもよい。

#### $[0 \ 0 \ 4 \ 3]$

本発明は、様々な形式のハードウェア、ソフトウェア、ファームウェア、特殊目的プロセッサ、又はその組み合わせで実装されてもよいことがわかる。一実施例では、本発明は、プログラム記憶装置に明白に具現されたアプリケーションプログラムとしてソフトウェアに実装され得る。アプリケーションプログラムは、何らかの適切なアーキテクチャを有する機械にアップロードされ、それにより実行されてもよい。

#### [0044]

添付図面に示した構成システムの構成要素及び方法のステップのうちいくつかはソフトウェアに実装されてもよいため、システム構成要素(又は処理のステップ)の間の実際の接続は、本発明がプログラムされる方法に応じて異なってもよいことが更にわかる。ここに提示された本発明の教示により、当業者は本発明の前記及び類似の実装又は構成を検討

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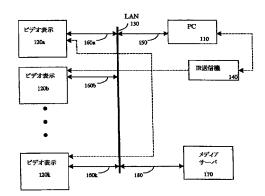
10

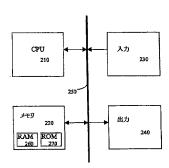
することができる。

【図面の簡単な説明】

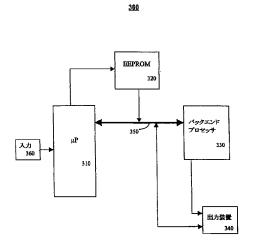
- [0045]
- 【図1】本発明の例示的な実施例による電子装置と通信するシステムのブロック図
- 【図2】本発明で使用されるパーソナルコンピュータ(PC)のブロック図
- 【図3】本発明で使用されるビデオ表示装置の制御システムのブロック図
- 【図4】本発明の例示的な実施例によるビデオ表示装置と通信するシステムの動作を示したフローチャート
- 【図5】本発明の例示的な実施例によるビデオ表示装置の特性に応じてビデオ表示装置と 通信するシステムの動作を示したフローチャート

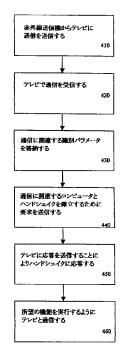
<u>100</u>



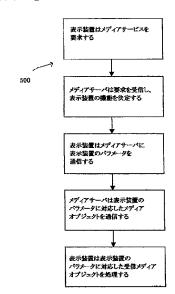








# [ 図 5 ]



【提出日】平成17年12月15日(2005.12.15)

【手続補正1】

【補正対象書類名】特許請求の範囲

【補正対象項目名】全文

【補正方法】変更

【補正の内容】

【特許請求の範囲】

【請求項1】

メディアオブジェクトを作る方法であって、

表示装置で使用される表示技術に関連する表示パラメータを決定するステップと、 前記パラメータに応じて表示技術に対応するメディアオブジェクトを生成するステップ・

を有する方法。

# 【請求項2】

請求項1に記載の方法であって、

前記表示パラメータは、前記表示パラメータに応じて前記メディアオブジェクトとして 生成されたデータを返信するサーバに通信される方法。

#### 【請求項3】

請求項1に記載の方法であって、

使用される表示技術を示す前記表示パラメータは、陰極線管、有機発光ダイオード、液晶ディスプレイ、シリコン上液晶、デジタル光プロジェクト及びプラズマのうち少なくとも1つである方法。

#### 【請求項4】

請求項3に記載の方法であって、

前記メディアオブジェクトは、前記表示技術に適したフォーマットでエンコードされる 方法。

#### 【請求項5】

請求項4に記載の方法であって、

前記メディアオブジェクトは、前記表示技術用に変更された視覚属性を有し、 前記視覚属性は、前記メディアオブジェクトが異なる表示技術を使用した表示装置に表示されるときに変更される方法。

#### 【請求項6】

請求項2に記載の方法であって、

前記メディアオブジェクトは、デジタルテレビ放送システムのサブチャネルで送信され、前記変更されたメディアオブジェクトは、異なるサブチャネルで送信される方法。

# 【請求項7】

メディアオブジェクトを送信する方法であって、

表示装置に使用される表示技術に関係する表示装置パラメータを決定し、前記パラメータは、メディアオブジェクトの要求の一部として受信されるステップと、

前記表示装置に前記メディアオブジェクトを送信し、前記メディアオブジェクトは、前記表示装置に使用される表示技術に対応するステップと、

を有する方法。

# 【請求項8】

請求項7に記載の方法であって、

使用される表示技術を示す前記パラメータは、陰極線管、有機発光ダイオード、液晶ディスプレイ、シリコン上液晶、デジタル光プロジェクト及びプラズマのうち少なくとも1つである方法。

#### 【請求項9】

請求項8に記載の方法であって、

前記メディアオブジェクトは、表示技術に適したフォーマットでエンコードされる方法

# 【請求項10】

請求項9に記載の方法であって、

前記メディアオブジェクトは、前記表示技術用に変更された視覚属性を有し、 前記視覚属性は、前記メディアオブジェクトが異なる表示技術を使用した表示装置に表 示されるときに変更される方法。

#### 【請求項11】

請求項10に記載の方法であって、

前記メディアオブジェクトは、デジタルテレビ放送システムのサブチャネルで送信され

、前記変更されたメディアオブジェクトは、異なるサブチャネルで送信される方法。

# 【国際調査報告】

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# INTERNATIONAL SEARCH REPORT

metional application No. PCT/US2004/013859

Box II - Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
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This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     Decause they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lecking (Continuation of item 3 of first elect)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this intermational Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
8. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. At the international search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention link mentioned in the chalms; it is covered by claims Nos.:
Remark on Protect  The additional search fees were accompanied by the applicant's protect.  No protect accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

# INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2004 /013859

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210 This International Searching Authority found multiple (groups of) inventions in this international application, as follows: 1, claims: 1-34 Method and system for establish a communication 2. claims: 35-44

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(特許庁注:以下のものは登録商標) ETHERNET Bluetooth

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F ターム(参考) 5C164 UB41P UD01P UD61S YA21



# Espacenet

Bibliographic data: JP2004356695 (A) - 2004-12-16

SYSTEM AND METHOD FOR DATA DISTRIBUTION AND DATA RECEIVING APPARATUS AND METHOD FOR DATA RECEIVING

Inventor(s): KASAHARA YOICHI <u>+ (</u>KASAHARA YOICHI)

**Applicant(s):** SONY CORP + (SONY CORP)

Classification: -international:*G06F13/00; H04N21/433; H04N21/442;* 

**H04N7/173;** (IPC1-7): H04N7/173

-cooperative:

Application number:

JP20030148697 20030527

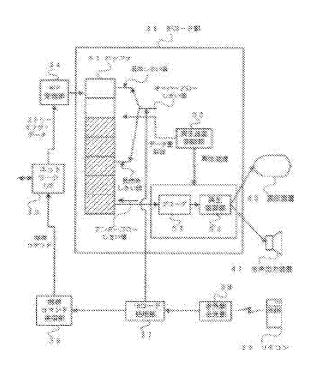
Priority number

JP2003014869720030527

(s):

Abstract of JP2004356695 (A)

PROBLEM TO BE SOLVED: To reproduce streaming data without generating underflow and overflow even in a small buffer, and to shorten a time for providing content at the time of operating a remote controller. ;SOLUTION: When a user controls a remote controller 39 for a content providing device 21, an IR code processor 37 receives a signal of the remote controller 39, and changes an overflow threshold from a normal threshold to an operation threshold smaller than the normal threshold. When judging that the amount of data streaming in a buffer 51 exceeds the operation threshold, a reproduction speed control unit 52 controls a decoder 53 and a reproduction control unit 54 to speed the reproduction processing. ;COPYRIGHT: (C) 2005,JPO&NCIPI



(19) 日本国特許庁(JP)

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Fターム(参考) 5C064 BA01 BB05 BC16 BC23 BD02

BD08 BD09

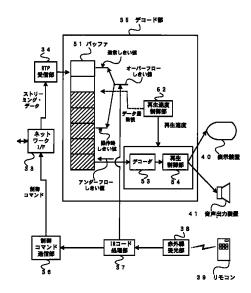
# (54) 【発明の名称】データ配信システムおよびデータ配信方法、ならびにデータ受信装置およびデータ受信方法

## (57)【要約】

【課題】小さなバッファでもアンダーフロー、およびオーバーフローを発生させずにストリーミング・データを再生するとともに、リモコン操作時のコンテンツ提供に係る遅延時間を短縮する。

【解決手段】ユーザが、コンテンツ提供装置21に対してリモコン39の操作をした場合に、IRコード処理部37が上記リモコン39の信号を受信し、オーバーフローしきい値を通常しきい値から、通常しきい値より小さい操作時しきい値に変更する。再生速度制御部52は、バッファ51内のストリーミング・データの量が、上記操作時しきい値を越えたと判断した場合に、デコーダ53および再生制御部54に対して再生処理を速くするよう制御し、これによって、リモコン操作時に、コンテンツがコンテンツ提供装置21から提供されてから表示装置40等に出力されるまでの時間を短縮する。

【選択図】 図5



#### 【特許請求の範囲】

#### 【請求項1】

映像データを含むコンテンツを出力するコンテンツ提供装置と、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、

前記ストリーミング・データを、前記ネットワークを介して受信する受信装置とを有し、 前記受信装置は、前記受信されたストリーミング・データをデコード処理がされるまで記 憶するバッファ手段と、

前記パッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値以下である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコード手段が前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段と を備えることを特徴とするデータ配信システム。

#### 【請求項2】

映像データを含むコンテンツを出力するコンテンツ提供装置と、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、

前記ストリーミング・データを、前記ネットワークを介して受信する受信装置とを有し、 前記受信装置は、前記受信されたストリーミング・データをデコード処理がされるまで記 憶するバッファ手段と、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第2のしきい値以上である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコード手段が前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段とを備えることを特徴とするデータ配信システム。

# 【請求項3】

映像データを含むコンテンツを出力するコンテンツ提供装置と、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、

前記ストリーミング・データを、前記ネットワークを介して受信する受信装置とを有し、 前記受信装置は、前記受信されたストリーミング・データをデコード処理がされるまで記 憶するバッファ手段と、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値と前記第1のしきい値より小さい第2のしきい値の間である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコード手段が前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御し、前記データ量が第2のしきい値を下回った場合は、前記デコード手段が前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段とを備えることを特徴とするデータ配信システム。

#### 【請求項4】 50

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請求項1,2または3に記載のデータ配信システムにおいて、

前記受信装置は、前記コンテンツ提供装置を制御するための制御信号を出力する信号入力 装置からの前記制御信号を受信する信号処理手段を更に有し、

前記制御信号が、前記信号処理手段から、前記ネットワークおよび前記送信装置を介して 前記コンテンツ提供装置に送信され、

前記信号処理手段が、前記制御信号を受信した場合に、前記第1のしきい値を、前記第1 のしきい値より小さい所定の値に変更することを特徴とするデータ配信システム。

#### 【請求項5】

請求項4に記載のデータ配信システムにおいて、

前記信号処理手段は、前記制御信号を一定期間受信しない場合は、前記変更された第1の 10 しきい値を、元の第1のしきい値に戻すことを特徴とするデータ配信システム。

# 【請求項6】

請求項1,2または3に記載のデータ配信システムにおいて、

前記デコード手段によりデコードされたストリーミング・データを受信し、前記映像データを表示する表示装置を更に有することを特徴とするデータ配信システム。

#### 【請求項7】

請求項1,2または3に記載のデータ配信システムにおいて、

前記デコード手段は、前記再生速度制御手段から再生処理の速度を変更するよう制御された場合に、前記映像データから所定のフィールドまたはフレームを除去することにより、

または前記映像データに所定のフィールドまたはフレームを挿入することによって再生速 20 度を変更することを特徴とするデータ配信システム。

#### 【請求項8】

映像データを含むコンテンツを出力するコンテンツ提供ステップと、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、

前記ストリーミング・データを前記ネットワークを介して受信し、前記ストリーミング・ データをデコード処理がされるまでバッファ手段に記憶する記憶ステップと、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコードステップと、

前記パッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミ 30 ングで取得し、前記データ量が第1のしきい値以下である場合は、前記デコードステップ が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコードステップが前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法。

# 【請求項9】

映像データを含むコンテンツを出力するコンテンツ提供ステップと、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、

前記ストリーミング・データを前記ネットワークを介して受信し、前記ストリーミング・ 40 データをデコード処理がされるまでバッファ手段に記憶する記憶ステップと、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコードステップと、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第2のしきい値以上である場合は、前記デコードステップが通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコードステップが前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法。

#### 【請求項10】

映像データを含むコンテンツを出力するコンテンツ提供ステップと、

前記コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、

前記ストリーミング・データを前記ネットワークを介して受信し、前記ストリーミング・ データをデコード処理がされるまでバッファ手段に記憶する記憶ステップと、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコードステップと、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値と前記第1のしきい値より小さい第2のしきい値の間である場合は、前記デコードステップが通常の速度で前記ストリーミング・デ 10ータの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコードステップが前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコードステップが前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法。

#### 【請求項11】

請求項8、9または10に記載のデータ配信方法において、

前記映像データを含むコンテンツからなるストリーミング・データの提供を制御するための制御信号を受信する信号処理ステップを更に有し、

前記信号処理ステップが、前記制御信号を受信した場合に、前記第1のしきい値を、前記 第1のしきい値より小さい所定の値に変更することを特徴とするデータ配信方法。

#### 【請求項12】

請求項11に記載のデータ配信方法において、

前記信号処理ステップは、前記制御信号を一定期間受信しない場合は、前記変更された第 1のしきい値を、元の第1のしきい値に戻すことを特徴とするデータ配信方法。

#### 【請求項13】

請求項8、9または10に記載のデータ配信方法において、

前記デコードステップによりデコードされたストリーミング・データを受信し、前記映像 データを表示する表示ステップを更に有することを特徴とするデータ配信方法。

# 【請求項14】

請求項8、9または10に記載のデータ配信方法において、

前記デコードステップは、前記再生速度制御ステップにより再生処理の速度を変更するよう制御された場合に、前記映像データから所定のフィールドまたはフレームを除去することにより、または前記映像データに所定のフィールドまたはフレームを挿入することによって再生速度を変更することを特徴とするデータ配信方法。

#### 【請求項15】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミング・データを、デコード処理がされるまで記憶するバッファ手段と、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 40 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値以下である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコード手段が前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置。

#### 【請求項16】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミング・データを、デコード処理がされるまで記憶するバッファ手段と、

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前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第2のしきい値以上である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第2のしきい値を下回った場合は、前記デコード手段が前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置。

#### 【請求項17】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミ 10 ング・データを、デコード処理がされるまで記憶するバッファ手段と、

前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコード手段と、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値と前記第1のしきい値より小さい第2のしきい値の間である場合は、前記デコード手段が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコード手段が前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコード手段が前記通常の速 20 度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置。

#### 【請求項18】

請求項15、16または17に記載のデータ受信装置において、

前記映像データを含むコンテンツからなるストリーミング・データの提供を制御するための制御信号を受信する信号処理手段を更に有し、

前記信号処理手段が、前記制御信号を受信した場合に、前記第1のしきい値を、前記第1のしきい値より小さい所定の値に変更することを特徴とするデータ受信装置。

# 【請求項19】

請求項18に記載のデータ受信装置において、

前記信号処理手段は、前記制御信号を一定期間受信しない場合は、前記変更された第1の しきい値を、元の第1のしきい値に戻すことを特徴とするデータ受信装置。

# 【請求項20】

請求項15、16または17に記載のデータ受信装置において、

前記デコード手段によりデコードされた前記ストリーミング・データを受信し、前記映像 データを表示する表示手段を更に有することを特徴とするデータ受信装置。

#### 【請求項21】

請求項15、16または17に記載のデータ受信装置において、

前記デコード手段は、前記再生速度制御手段から再生処理の速度を変更するよう制御された場合に、前記映像データから所定のフィールドまたはフレームを除去することにより、 40 または前記映像データに所定のフィールドまたはフレームを挿入することによって再生速度を変更することを特徴とするデータ受信装置。

#### 【請求項22】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第1のしきい値以下である場合は、前記デコードステップ が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

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前記データ量が第1のしきい値を上回った場合は、前記デコードステップが前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ受信方法。

#### 【請求項23】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、前記データ量が第2のしきい値以上である場合は、前記デコードステップ 10 が通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコードステップが前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ受信方法。

## 【請求項24】

映像データを含むコンテンツからなるストリーミング・データを受信し、前記ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、 前記バッファ手段内の前記ストリーミング・データに前記デコード処理を施すとともに、 デコード出力の再生速度を制御可能なデコードステップと、

前記バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミ 20 ングで取得し、前記データ量が第1のしきい値と前記第1のしきい値より小さい第2のしきい値の間である場合は、前記デコードステップが通常の速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が第1のしきい値を上回った場合は、前記デコードステップが前記通常の速度より速い速度で前記ストリーミング・データの再生を行うよう制御し、

前記データ量が前記第2のしきい値を下回った場合は、前記デコードステップが前記通常の速度より低い速度で前記ストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ受信方法。

#### 【請求項25】

請求項22,23または24に記載のデータ受信方法において、

前記映像データを含むコンテンツからなるストリーミング・データの提供を制御するための制御信号を受信する信号処理ステップを更に有し、

前記信号処理ステップが、前記制御信号を受信した場合に、前記第1のしきい値を、前記 第1のしきい値より小さい所定の値に変更することを特徴とするデータ受信方法。

# 【請求項26】

請求項25に記載のデータ受信方法において、

前記信号処理ステップは、前記制御信号を一定期間受信しない場合は、前記変更された第 1のしきい値を、元の第1のしきい値に戻すことを特徴とするデータ受信方法。

# 【請求項27】

請求項22,23または24に記載のデータ受信方法において、

前記デコードステップによりデコードされた前記ストリーミング・データを受信し、前記 映像データを表示する表示ステップを更に有することを特徴とするデータ受信方法。

#### 【請求項28】

請求項22,23または24に記載のデータ受信方法において、

前記デコードステップは、前記再生速度制御ステップにより再生処理の速度を変更するよう制御された場合に、前記映像データから所定のフィールドまたはフレームを除去することにより、または前記映像データに所定のフィールドまたはフレームを挿入することによって再生速度を変更することを特徴とするデータ受信方法。

# 【発明の詳細な説明】

# [00001]

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# 【発明の属する技術分野】

この発明は、映像・音声データを、ネットワークを介して配信するデータ配信システムおよび方法、ならびに映像・音声データを、ネットワークを介して受信するデータ受信装置およびデータ受信方法に関する。

#### [00002]

#### 【従来の技術】

ここ数年の間で、DVD(Digital Versatile Disk)の利用が広く浸透してきており、映画や音楽のコンテンツを記録したDVDも多く販売されるようになってきた。またディジタルハイビジョン放送も開始され、各家庭には、今までにない高画質、高音質なコンテンツが多く提供されるようになってきている。これらのメディアの 1 普及に伴って、DVDを再生するDVD再生装置、ディジタルハイビジョン放送を受信、表示するディジタルテレビジョン受信装置、およびディジタルハイビジョン放送等を録画して随時再生することができるホームビデオサーバといったコンテンツを提供する装置が次々と商品化され店頭に並んでいる。

## [00003]

また、これらの装置は、ユーザのリモコン等の操作に応じて所定の動作をする。例えば、DVD再生装置は、映画のDVDの再生に際して、ユーザのリモコン操作に応じて特定のチャプターを選択して再生することができる。また、ディジタルテレビジョン受信装置は、ユーザのリモコン操作に応じて、データ放送のプログラムによる双方向サービスを提供することができる。

#### [00004]

このような状況の中、高画質かつ高音質な映画やテレビジョン放送の番組を、より容易に家庭内で楽しむことができる「ホームネットワーク」が世間の注目を集め、これを実現するシステムも市販され始めている。このシステムの特徴の1つは、DVD再生装置やハードディスクドライブ等のコンテンツ提供装置からの映像・音声データが、ネットワークを介して伝送され、異なる部屋にあるテレビジョンモニタおよびスピーカ等で再生されることである。

# [00005]

コンテンツ提供装置から映像・音声データを受け取った送信装置は、そのデータを圧縮符号化して、例えば、家庭内LAN(Local Area Network)等のネットワークに送信する。圧縮符号化されたデータをネットワークを介して受信する受信装置は、このデータをデコードしてテレビジョンモニタやスピーカに出力する。ここで利用される家庭内LANは、例えば、100BASE-TXのネットワーク接続を使用したイーサネット(登録商標)LANや、IEEE802・11gといった規格に従う無線LAN等である。

#### [00006]

また、このシステムでは、高画質、高音質を実現するために大きなサイズとなっている映像・音声データを含むストリーミング・データを、上記LANのような比較的帯域の狭いネットワークを利用して送信すること、および高データレートで当該ストリーミング・データを転送すると、送信装置および受信装置それぞれのCPU負荷を増大させてしまうこ 40 と等の理由により、当該ストリーミング・データを、例えば、MPEG-2(Moving Picture Experts Group-2)等の圧縮技術で圧縮する方法が用いられている。すなわち、送信装置側でそのストリーミング・データをMPEG-2形式にエンコードし、受信装置側では、その圧縮されたストリーミング・データをデコードし、出力する。

#### [00007]

このようなシステムにおいては、通常時のストリーミング・データの再生が滑らかに行われることが重要であるため、上記ストリーミング・データをデコードする受信装置内のデコーダの前段にストリーミング・データ受信用の大容量バッファが設けられる。このバッファ容量は、ネットワーク伝送遅延や、送信装置および受信装置の処理能力等を考慮して

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、ある程度の余裕を持つように定められる。バッファ容量が小さいと、送信装置からのストリーミング・データの転送が遅延した場合に、デコーダが処理すべきデータがすぐになくなって、所定のタイミングで出力すべき映像および音声を提供することができず、結果的に滑らかなストリーミング・データの再生が行えないことになる。

#### [00008]

こうしたストリーミング・データの遅延の原因として代表的なものは、ネットワークの帯域幅が減少することである。同一のネットワーク上で、他の送信装置から他のストリーミング・データが送出されたり、他の受信装置に同一のストリーミング・データが送出されたりすると、利用可能なネットワークの帯域幅が急激に減少する。また、無線LAN利用時には、間に障害物が入ったり、他の機器と混信したりすることによって通信速度が低下する。

#### [0009]

また、ストリーミング・データの転送プロトコルには、パケットロス対策や伝送時間の保証を行わない、例えば、RTP(Real-time Transport Protocol)のようなプロトコルが利用される。ストリーミング・データの再生においては、1フレームの映像データの到着を待つことによってストリーミング再生が遅れるよりも、その1フレームの映像・音声データが欠落する方が好ましい。その方が、ユーザにとっては自然なストリーム再生と感じられるからである。

#### [0010]

同様のシステムとして、コンテンツ再生方法および装置が提案されている(特許文献1) 20 。この方法および装置では、コンテンツの再生中に、シーン記述情報に基づいて後続のコ ンテンツデータの先行取得が行われる。

#### $[0\ 0\ 1\ 1\ ]$

#### 【特許文献1】

特開2002-268999号公報

# [0012]

【発明が解決しようとする課題】

しかしながら、上述した大容量バッファを使用すると、コンテンツ提供装置によってコンテンツ(映像・音声データ)が送信されてから、その映像・音声データがユーザに視聴可能となるまでの時間(遅延時間)が長くなってしまう。これにより、例えば、ネットワー 30 ク上に障害が発生した後でコンテンツの再生が再開されるときに安定再生状態に復帰するのに長い時間がかかることになる。

# [0013]

また、このような遅延時間の長さは、ユーザがリモコン等を操作してコンテンツ提供装置 に指示を送っても、その指示が表示に反映されるのに非常に長い時間がかかり、リモコン 操作におけるリアルタイム性を損なうことになる。

# $[0\ 0\ 1\ 4\ ]$

例えば、DVDに記録された映画のストリーミング・データが、DVD再生装置(コンテンツ提供装置)から、送信装置、ネットワーク、および受信装置を介してテレビジョンモニタ等に出力されているときに、ユーザが映画の言語を変更したり、視聴チャプターの変 40 更をしたりするためにメニューを表示するように指示をした場合、そのDVD再生装置は、ユーザの指示を受け取るとすぐに対応するメニューの映像データを受信装置に向けて送信する。

#### $[0\ 0\ 1\ 5\ ]$

しかしながら、バッファには、依然として映画のシーンに対応する残りのストリーミング・データが格納されているので、上記メニューの表示は、それらのシーンが全て表示された後でテレビジョンモニタに表示される。従って、ユーザは、DVD再生装置に指示をしてから、その指示結果を見るまで非常に長い間待つ必要がある。特に、階層化された複数のメニューを表示させて、順次リモコンで指示をしていくような場合は、それぞれのメニュー表示に長い間待がかかるので、最終的な指示を行うまでに膨大な時間を要する。また 50

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、このような遅延によって、ユーザがリモコン操作を誤る確率も増大する。

#### $[0\ 0\ 1\ 6\ ]$

また、ユーザが、テレビジョンモニタ等の表示装置に表示されている映像等を観てリモコンを操作しても、そのリモコンの指示を受け取ったコンテンツ提供装置は、全く異なる先行する映像を提供しているので、その指示を受け付けることができない場合もある。

#### $[0\ 0\ 1\ 7\ ]$

また更に、コンテンツ提供装置が D V D 再生装置やビデオテープレコーダである場合には、リモコンによる再生や停止等の指示が、上述した遅延時間のためにユーザの期待する位置で行われないという問題もある。

#### [0018]

従って、この発明の目的は、DVD再生装置などのコンテンツ提供装置からコンテンツ(映像・音声データ)を配信する際に、小さなサイズのバッファを用いても、バッファ内にストリーミング・データが存在しない状態(アンダーフロー)や、バッファがストリーミング・データで一杯になる状態(オーバーフロー)の発生を抑止し、滑らかなストリーミング・データの再生を維持するように、上記ストリーミング・データのデコード処理の速度を調整するデータ配信システムおよび方法、ならびにデータ受信装置および方法を提供することにある。

#### [0019]

また、この発明の更なる目的は、ユーザがコンテンツ提供装置に対してリモコンの操作を した場合に、バッファ内のストリーミング・データの量を判定するしきい値を動的に変更 することによって、そのコンテンツがコンテンツ提供装置より配信されてから表示装置に 表示されるまでの時間を短縮するように制御するデータ配信システムおよび方法、ならび にデータ受信装置および方法を提供することにある。

#### [0020]

#### 【課題を解決するための手段】

請求項1の発明は、映像データを含むコンテンツを出力するコンテンツ提供装置と、コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、ストリーミング・データを、ネットワークを介して受信する受信装置とを有し、受信装置は、受信されたストリーミング・データをデコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値以下である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1のしきい値を上回った場合は、デコード手段が通常の速度より速い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを備えることを特徴とするデータ配信システムである。

# [0021]

請求項2の発明は、映像データを含むコンテンツを出力するコンテンツ提供装置と、コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、ストリーミング・データを、ネットワークを介して受信する受信装置とを有し、受信装置は、受信されたストリーミング・データをデコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第2のしきい値以上である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第2のしきい値を下回った場合は、デコード手段が通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを備えることを特徴とするデータ配信システムである。

#### [0022]

請求項3の発明は、映像データを含むコンテンツを出力するコンテンツ提供装置と、コン 50

テンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信装置と、ストリーミング・データを、ネットワークを介して受信する受信装置とを有し、受信装置は、受信されたストリーミング・データをデコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値と第1のしきい値より小さい第2のしきい値の間である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第2のしきい値を下回った場合は、デコード手段が通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを備えることを特徴とするデータ配信システムである。

# [0023]

請求項8の発明は、映像データを含むコンテンツを出力するコンテンツ提供ステップと、コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、ストリーミング・データをネットワークを介して受信し、ストリーミング・データをデコード処理がされるまでバッファ手段に記憶する記憶ステップと、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値以下である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1のしきい値を上回った場合は、デコードステップが通常の速度より速い速度でストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法である。

#### [0024]

請求項9の発明は、映像データを含むコンテンツを出力するコンテンツ提供ステップと、コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、ストリーミング・データをネットワークを介して受信し、ストリーミング・データをデコード処理がされるまでバッファ手段に記憶する記憶ステップと、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第2のしきい値以上である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第2のしきい値を下回った場合は、デコードステップが通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法である。

# [0025]

請求項10の発明は、映像データを含むコンテンツを出力するコンテンツ提供ステップと、コンテンツを必要に応じてエンコードし、ストリーミング・データとしてネットワーク上に送信する送信ステップと、ストリーミング・データをネットワークを介して受信し、ストリーミング・データをネットワークを介して受信ストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値と第1のしきい値より小さい第2のしきい値の間である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、デコードステップが通常の速度より低い速度でストリーミング・データの再生を行うよう制御し、デコードステップが通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ配信方法である。

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# [0026]

請求項15の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値以下である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1のしきい値を上回った場合は、デコード手段が通常の速度より速い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置である。

#### [0027]

請求項16の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第2のしきい値以上である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第2のしきい値を下回った場合は、デコード手段が通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置である。

#### [0028]

請求項17の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまで記憶するバッファ手段と、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコード手段と、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値と第1のしきい値より小さい第2のしきい値の間である場合は、デコード手段が通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1のしきい値を上回った場合は、デコード手段が通常の速度より速い速度でストリーミング・データの再生を行うよう制御し、デコード手段が通常の速度より低30い速度でストリーミング・データの再生を行うよう制御する再生速度制御手段とを有することを特徴とするデータ受信装置である。

# [0029]

請求項22の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値以下である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1のしきい値を上回った場合は、デコードステップが通常の速度より速い速度でストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ受信方法である。

# [0030]

請求項23の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第2のしきい値以上である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第2のしきい値を下回った場合は、デコードステッ

プが通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速 度制御ステップとを有することを特徴とするデータ受信方法である。

## $[0\ 0\ 3\ 1\ ]$

請求項24の発明は、映像データを含むコンテンツからなるストリーミング・データを受信し、ストリーミング・データを、デコード処理がされるまでバッファ手段に記憶する記憶ステップと、バッファ手段内のストリーミング・データにデコード処理を施すとともに、デコード出力の再生速度を制御可能なデコードステップと、バッファ手段内に記憶されているストリーミング・データのデータ量を所定のタイミングで取得し、データ量が第1のしきい値と第1のしきい値より小さい第2のしきい値の間である場合は、デコードステップが通常の速度でストリーミング・データの再生を行うよう制御し、データ量が第1の10とが、デローを場合は、デコードステップが通常の速度より観い速度でストリーミング・データの再生を行うよう制御し、デコードステップが通常の速度より低い速度でストリーミング・データの再生を行うよう制御する再生速度制御ステップとを有することを特徴とするデータ受信方法である。

#### [0032]

この発明によれば、DVD再生装置などのコンテンツ提供装置からコンテンツ(映像・音声データ)を配信する際に、小さなサイズのバッファを用いても、バッファ内にストリーミング・データが存在しない状態(アンダーフロー)や、バッファがストリーミング・データで一杯になる状態(オーバーフロー)の発生を抑止し、滑らかなストリーミング・データの再生を維持するように、上記ストリーミング・データのデコード処理の速度が調整される。

# [0033]

また、この発明によれば、ユーザがコンテンツ提供装置に対してリモコンの操作をした場合に、バッファ内のストリーミング・データの量を判定するしきい値を動的に変更することによって、そのコンテンツがコンテンツ提供装置より配信されてから表示装置に表示されるまでの時間を短縮するように制御される。

#### $[0\ 0\ 3\ 4\ ]$

#### 【発明の実施の形態】

以下、この発明の実施の形態について、図面を用いて説明する。また、各図にわたり、同一の構成要素には同一の符号が付されている。図1は、この発明の第1の実施の形態に係 30るデータ配信システム1の構成要素を示すブロック図である。

## [0035]

データ配信システム1は、コンテンツ提供装置2、送信装置4、受信装置9、表示装置13、音声出力装置14、およびネットワーク15を含む。ここで、後述する受信装置9内のバッファ16、再生速度制御部17はそれぞれ、バッファ手段、再生速度制御手段に対応し、デコーダ18および再生制御部19は、デコード手段に対応する。また、コンテンツ提供装置2と送信装置4は、1つの装置として一体的に構成されてもよい。

#### [0036]

コンテンツ提供装置 2 は、映像データおよび音声データを含むコンテンツを提供する装置であり、D V D 再生装置(D V D プレイヤー)、ビデオテープレコーダ、ビデオサーバ、 40アナログテレビジョン受信機、およびディジタルテレビジョン受信機等がこれに相当する

## [0037]

また、コンテンツ提供装置2は、DVD、ビデオカセットテープ、ハードディスク等の記録媒体からコンテンツ(映像・音声データ)を読み取り、またはディジタルテレビジョン放送やアナログテレビジョン放送を受信し、A/V(Audio/Visual)データ生成部3で、そのコンテンツやテレビジョン放送を所定のフォーマットに変換し、A/Vデータとして出力する。こうしたコンテンツ提供装置2は、通常、テレビジョンモニタ等の表示装置13やスピーカ等の音声出力装置14に直接接続して映像および音声を出力できる市販の装置であってもよい。また、この例では、A/Vデータは、アナログデータと

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して出力されているが、メディアの種類とコンテンツ提供装置2の機能の組み合わせによっては、ディジタルデータで出力することも可能である。

# [0038]

送信装置 4 は、A / D 変換部 5、エンコーダ 6、R T P 送信部 7、およびネットワーク・インタフェース 8 を有し、受信した映像・音声データをディジタル化して圧縮し、ネットワーク 1 5 上に送信する。

#### [0039]

A/D変換部5は、コンテンツ提供装置2から受信したアナログの映像・音声データをディジタルに変換する。前述したように、コンテンツ提供装置2からの出力がディジタルデータとして提供される場合、このA/D変換部5における処理は不要となる。

## [0040]

エンコーダ 6 は、A / D 変換部 5 から受信したディジタルの映像・音声データを所定の圧縮方法で圧縮する。これらのデータは、後述するように、帯域に制限のあるネットワークを介して受信装置 9 に送信されるので、できるだけ帯域を占有しないように圧縮されることが好ましい。また、圧縮することによって高データレートでの転送を回避し、送信装置 4 および受信装置 9 の C P U 負荷を低減することも可能である。

# [0041]

こうした映像・音声データの圧縮方法としては、MPEG-2(Moving Picture Experts Group-2)が一般的に用いられている。本実施の形態では、映像データ、音声データともにMPEG-2で圧縮符号化が行われるものとして説明 20を行うが、この圧縮方法に限定される必要はなく、他の圧縮方法を用いてシステムを構築することもできる。

#### [0042]

次に、MPEG-2形式にエンコードされた映像・音声データは、ネットワーク15上で送信を行うために、RTP送信部7でプロトコルに応じた変調処理がされ、その後、ネットワーク・インタフェース8、ネットワーク15、および受信装置9のネットワーク・インタフェース10を介して受信装置9のRTP受信部11に送信される。この例では、送信装置4と受信装置9を接続するネットワーク15として100BASE-TXのネットワーク接続からなるイーサネットLANが使用され、プロトコルはRTP(Real-time Transport Protocol)が利用される。送信装置4と受信装置9との間は、その他のネットワークで接続することができ、更に、RTP以外のプロトコルを使用することができる。例えば、IEEE802・11a等の規格に基づく無線LANでこれらの装置間でデータの転送を行うこともできる。また、これらのネットワーク接続は家庭内に限られるものと解すべきではなく、LAN以外にも、WAN(Wide Area Network)やMAN(Metropolitan Area Network)に適用することができる。更に、特定のネットワーク・トポロジーに限定されるものでもない。

# [0043]

コンテンツ提供装置 2 のなかには、D V D メディアやハードディスク内に、既にM P E G - 2 の T S ( T r a n s p o r t S t r e a m : トランスポート・ストリーム) の形式 40 で映像・音声データを記憶しているものもある。従って、そのような形式のデータを送信する場合、A / D 変換部 5 およびエンコーダ 6 を使用する必要はない。

# [0044]

本実施の形態に係るデータ配信システム 1 が、家庭内でホームシアターを構成するために用いられる場合は、コンテンツ提供装置 2 や送信装置 4 は、通常、リビング等の同じ部屋に配置される。受信装置 9 は、コンテンツ提供装置 2 等と同じ部屋に置かれることもあるが、離れた別の部屋に置かれることもある。

# [0045]

また、図1に示すデータ配信システム1をクライアント・サーバ型のシステムと考えれば 、送信装置4がサーバであり、受信装置9がクライアントという関係になる。また、前述

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#### [0046]

受信装置 9 は、ネットワーク・インタフェース 1 0 、 R T P 受信部 1 1 、およびデコード部 1 2 を有する。ネットワーク・インタフェース 1 0 は、送信装置 4 のネットワーク・インタフェース 8 から送信されたストリーミング・データをネットワーク 1 5 を介して受信する。 R T P 受信部 1 1 は、ネットワーク・インタフェース 1 0 からのストリーミング・データを 復調し、M P E G - 2 O T S を生成する。

# [0047]

デコード部12は、上記TSから映像データ、音声データを個別にデコードし、それぞれの出力装置に(すなわち、映像データはテレビジョンモニタ等の表示装置13に、音声データはスピーカ等の音声出力装置14に)再生タイミングを調整した上で出力する。

#### [0048]

この例では、受信装置 9、表示装置 1 3、および音声出力装置 1 4 は、それぞれ別の装置として表されているが、受信装置 9 に、表示装置 1 3 と音声出力装置 1 4 の両方、またはどちらか一方を組み込んで単一の装置として構成することもできる。例えば、受信装置 9 の構成要素を全て含んだディジタルテレビジョン受信機を構成することができる。

#### [0049]

このようなシステムでは、ネットワーク環境などにより多少のデータが欠落しても後続の 20 データが影響なく再生できるために、(OSI参照モデルにおける)トランスポートレイヤのプロトコルとして、再送制御を行わないUDPが利用されることが多い。本実施の形態で使用するRTPもトランスポートレイヤにUDPを利用するプロトコルである。

#### [0050]

RTP送信部7では、映像・音声データの圧縮符号化がエンコーダ 6 によって行われた段階で、受信装置 9 の状態に関係なく圧縮符号化されたストリーミング・データを受信装置 9 のネットワーク・インタフェース 1 0 に送出する。従って、受信装置 9 では、デコード部 1 2 の処理状態に関係なく当該ストリーミング・データを受け取ることになる。ストリーミング・データの受信間隔は一定でなく、また一回に受信するストリーミング・データのサイズもコンテンツの内容等によって変化する。デコード部 1 2 が、ストリーミング・データのデコード処理をしている間に後続のストリーミング・データを受信しても、そのストリーミング・データをすぐに処理することはできない。

# [0051]

そのため、デコード部12は、受信したストリーミング・データを蓄積するバッファを備え、デコード処理中に受信したストリーミング・データを後で処理できるようにしている。以下に、デコード部12によるバッファの利用態様を、図2を参照して説明する。また、ここで説明するバッファは、例えば、MPEG-2のTS(トランスポート・ストリーム)を記憶するものであり、TSは、ビデオ・ストリームとオーディオ・ストリームを含むデータ・ストリームである。従ってこの場合は、バッファを1つ設ければよいが、映像データと音声データを別のデータ・ストリームで転送するような場合は、映像データと音声データそれぞれにバッファを設けるように構成してもよい。

# [0052]

図2は、デコード部12が、RTP受信部11からストリーミング・データを受信してバッファ16に記憶し、それを順次処理する態様が概念的に示されている。また、この図に示す例では、デコード部12は、バッファ16、再生速度制御部17、デコーダ18、および再生制御部19を備えている。

# [0053]

最初に、RTP受信部11は、ネットワーク・インタフェース10から送信装置4により送信されたストリーミング・データ(MPEG-2形式に圧縮符号化された映像・音声データ)を受信すると、そのデータをバッファ16に送信する。バッファ16は、例えば、 50

リングバッファ構成をとるFIFO(First-In First-Out)型のメモリであり、当該ストリーミング・データを受信してそれらを蓄積する。バッファ16内のストリーミング・データは、最初に受信したものから順に、デコーダ18および再生制御部19に提供され、そこでストリーミング・データのデコード処理を含む再生処理が行われる。デコーダ18によるデコード処理では、MPEG-2形式のデータが、映像データ、音声データに分離され、出力装置が扱うデータ形式にそれぞれ変換され、変換されたデータが当該出力装置に送信される。映像データは、表示装置13に出力するための形式に変換される。

#### $[0\ 0\ 5\ 4\ ]$

コンテンツの再生中に、バッファ16に一定期間ストリーミング・データの受信がなく、 デコーダ18および再生制御部19が、全てのストリーミング・データについて再生処理 を終えた場合、デコーダ18は次に処理すべきストリーミング・データを取得することが できない。このような状態を「アンダーフロー」と言い、表示装置13には同じフレーム の映像が繰り返し表示されるフリーズ状態となる。

#### [0055]

逆に、デコーダ 18 および再生制御部 19 でストリーミング・データの再生処理を行うペース以上にストリーミング・データを受信する場合、バッファ 16 はストリーミング・データで一杯になり、新たに受信したストリーミング・データを消失するかまたは最新のデータを上書きする。これは「オーバーフロー」と呼ばれる状態で、表示装置 13 には、上記消失したデータ、または上書きされたデータに対応するフレームがスキップされて表示 20 される。

#### [0056]

このような事象の発生を回避するためには、バッファ容量にマージンを加え、バッファ容量をある程度大きめに設定する必要がある。本実施の形態では、バッファ容量を、受信装置 9 におけるストリーミング・データの受信間隔、受信するストリーミング・データの平均サイズ、デコーダ 1 8 および再生制御部 1 9 の処理能力、コンテンツ提供装置 2 から A V データが生成されてから受信装置 9 でストリーミング・データがデコード・再生されるまでの遅延時間等を考慮して設定する。

#### $[0\ 0\ 5\ 7\ ]$

## [0058]

デコーダ18および再生制御部19による再生処理は、上記MPEG-2形式のデータをデコードしてから、当該データを表示装置13や音声出力装置14に再生出力するまでの処理を意味する。

# [0059]

オーバーフローしきい値は、バッファに蓄積されたストリーミング・データの量がこの値を超えた場合に、オーバーフローに近い状態であることを示すために設定されているので、バッファ16の容量(最大容量)より小さい値で、かつこの容量の値にある程度近接する値である必要がある。同様に、アンダーフローしきい値は、バッファに蓄積されたストリーミング・データの量がこの値を下回った場合に、アンダーフローに近い状態であることを示すために設定されているので、ゼロより大きい値で、かつこのゼロの値にある程度近接する値である必要がある。例えば、図2では、オーバーフローしきい値は、バッファ16の最大容量の位置から、バッファ16の容量の1/7だけ下の位置(小さい値)に設定されている。一方、アンダーフローしきい値は、バッファ16のゼロの位置から、バッ

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ファ16の容量の1/7だけ上の位置(大きい値)に設定されている。

#### [0060]

デコーダ 1 8 および再生制御部 1 9 は恊働して、再生速度制御部 1 7 から指定された再生速度に基づきストリーミング・データの再生速度を調整するが、この速度調整には、様々な方法が考えられる。例えば、高速な再生処理を行う場合は、1 秒間に 6 0 フィールドの元の映像データを数フィールド減らして 1 秒より短い時間で再生する。逆に、低速な再生処理を行う場合は、上記 6 0 フィールドに数フィールドを補間して 1 秒より長い時間で再生する。当該フィールドの補間は、2 4 コマの映画フィルムを 3 0 コマの D V D 用の映像に変換するテレシネ変換と同様の方法で行われる。こうした速度変更のための処理はフィールド単位で行われることが望ましいが、フレームなどのその他の単位で行うこともできる。

# [0061]

また、MPEG-2のTSが有するPTS (Presentation Time Stamp)等の情報を元に、ストリーミング・データのデコード処理の開始時間を調整することもできる。

#### [0062]

これらの方法を用いることによって、人間がその速度差にほとんど気づかない高速化および低速化を行うこともできる。

#### [0063]

このようなデコーダ 18 および再生制御部 19 の再生速度の調整によって、バッファ 16 20 内のストリーミング・データの量がアンダーフローしきい値を下回っている場合は、しだいにストリーミング・データがバッファ 16 内に蓄積され、当該データの量がアンダーフローしきい値を上回る状態になる。一方、バッファ 16 内のストリーミング・データの量がオーバーフローしきい値を上回っている場合は、しだいにストリーミング・データがバッファ 16 内で減少し、当該データの量がオーバーフローしきい値を下回る状態になる。この結果、バッファ 16 内に蓄積されたストリーミング・データの量が、アンダーフローしきい値とオーバーフローしきい値との間の値となった場合、再生速度制御部 17 は、再生処理を通常の速度に戻すよう制御する。

# [0064]

次に、上述した再生速度制御部 1 7 の動的な制御を、図 3 のフローチャートを用いて説明 30 する。図 3 に示された処理は、所定のタイミングで繰り返し起動されるが、このタイミングは通常、再生速度制御部 1 7 がバッファ 1 6 を監視するタイミングと一致するものである。

#### [0065]

最初に、ステップ S 1 0 で、再生速度制御部 1 7 がバッファ 1 6 内のストリーミング・データのデータ量を検出する。次に、ステップ S 1 1 で、この検出値と上記各しきい値との比較を行う。データ量の値がオーバーフローしきい値より大きい場合は、ステップ S 1 2 に進み、再生速度を高速にするよう制御する。データ量の値がアンダーフローしきい値より小さい場合は、ステップ S 1 4 に進み、再生速度を低速にするよう制御する。データ量の値がアンダーフローしきい値以上で、オーバーフローしきい値以下である場合は、ステップ S 1 3 に進み、再生速度を通常の速度にするよう制御する。

## [0066]

以上説明したように、それぞれのステップS12、ステップS13、ステップS14で、再生速度が切り換えられるが、以前の制御によって、既に同じ速度に切り換えられている場合は、各ステップで速度切換制御を行う必要はない。また、本実施の形態の例では、2つのしきい値が用いられているが、より多くのしきい値を設定して、再生速度をより詳細なレベルで切り換えるように制御することもできる。

# [0067]

本実施の形態によって、結果的に、従来のものより小さいサイズのバッファを使用しても 、バッファ内に処理すべきストリーミング・データが存在しない状態(アンダーフロー)

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や、バッファがストリーミング・データで一杯になる状態(オーバーフロー)が発生する 可能性を低減することができる。また、本実施の形態において従来のサイズのバッファを 用いた場合は、上記オーバーフローおよびアンダーフローの発生確率がより一層低減され る。

# [0068]

次に、図4ないし図7を参照して、この発明の第2の実施の形態に係るデータ配信システムについて説明する。図4は、第2の実施の形態に係るデータ配信システム20の構成を表すブロック図である。

#### [0069]

本実施の形態のデータ配信システム20は、コンテンツ提供装置21で生成されたA/V 1データが、送信装置24でMPEG-2等の好適な圧縮フォーマットにエンコードされ、ネットワーク42を介して受信装置32に送信され、最終的に表示装置40および音声出力装置41に映像や音声として出力されるという点で、前述の第1の実施の形態に係るデータ配信システム1と共通している。

## [0070]

すなわち、データ配信システム 20の A / V データ生成部 22、 A / D 変換部 25、 E ンコーダ 26、 E E E 7、 および E E E 7 、および E E 7 と信部 E 3、 E 4 は、データ配信システム E 1の E / E 7 と同様の機能を有している。従って、これらについては、詳細な説明を省略する

#### [0071]

データ配信システム20は、データ配信システム1の機能に加え、ユーザがリモートコントロールコマンダ(以下、リモコンと称する)によって、コンテンツ提供装置21に指示を送信する機能を有している。ユーザのリモコン操作の内容は、受信装置32によって受信され、ネットワーク42、および送信装置24を介してコンテンツ提供装置21に伝えられる。コンテンツ提供装置21と表示装置40は、遠く隔てて置かれたり、別の部屋の置かれたりする場合があり、このような状況では、リモコンによってコンテンツ提供装置21を直接操作することはできない。従って、このように映像・音声データとは逆の経路でリモコンの指示をネットワークを介して伝えられることは、ユーザの操作性を向上するうえで好ましい構成であると言える。

#### [0072]

また、この例では、コンテンツ提供装置21に対する指示をリモコン39によって行うこととしているが、受信装置32に接続されたキーボード、マウス、タッチパネル等の他の 人力装置を用いて当該指示を行うこともできる。

#### [0073]

## [0074]

次に、図4のブロック図を参照して、リモコン39による指示が伝えられる経路の順に、関連する構成要素を説明する。リモコン39は、コンテンツ提供装置21のリモコンであっても良いが、後で説明するコマンド変換部29の機能により、別のリモコン39を使用してコンテンツ提供装置に指示を送信することもできる。例えば、表示装置40や受信装置32に対する指令を送信することができ、更に異なるメーカからなる複数のコンテンツ提供装置21にそれぞれ指示を送信することのできるようなものをリモコン39として構成することができる。

#### [0075]

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コンテンツ提供装置 2 1 に対するリモコン 3 9 の指令は、例えば、コンテンツ提供装置 2 1 が D V D 再生装置であれば、D V D のコンテンツメニューの表示、コンテンツの再生、停止、チャプター一覧の表示等が考えられる。また、コンテンツ提供装置 2 1 がディジタルテレビジョン受信装置であれば、チャンネルの変更や、データ放送を利用した双方向サービスに関する指示等が考えられる。

#### [0076]

ユーザが、コンテンツ提供装置21の操作を行うためにリモコン39のボタンを押して指示を送信すると、その指示内容に対応する制御信号(赤外線信号)が発信される。リモコン39は、所定のタイミングで所定のパルスを発信し、これらのタイミングの組み合わせによって、指示内容、指示対象機器、機器メーカ等を特定する。

#### [0077]

こうして発信された赤外線信号は、受信装置32の赤外線受光部38によって受信され、IRコードをIRコード処理部37に送信する。IRコード処理部37は受信したIRコードを所定のルールに基づいて符号化し、制御コマンドを生成する。制御コマンドは次に、制御コマンド送信部36に送信され、そこで、送信プロトコルに応じた変調処理が行われ、ネットワーク・インタフェース33に送られる。

# [0078]

制御コマンド送信部36によって変調された変調データは、ネットワーク・インタフェース33から、ネットワーク42および送信装置24のネットワーク・インタフェース31を介して制御コマンド受信部30に送信される。この例では、上記変調データが、第1の 20 実施の形態で説明したストリーミング・データの転送と同じ経路、すなわち、ネットワーク42を介して転送されるが、別の経路を利用して転送することもできる。

#### [0079]

ネットワーク・インタフェース 3 1 によって受信された変調データは、制御コマンド受信部 3 0 に送信され、そこで復調処理が行われ、制御コマンドが得られる。ここで得られた制御コマンドは、リモコン 3 9 のメーカに依存したものである。従って、指示対象のコンテンツ提供装置 2 1 が別のメーカである場合や、リモコン 3 9 からの指示を想定していない場合には、そのリモコン 3 9 からの制御コマンドを解釈することができない。そのような場合に、コマンド変換部 2 9 は、受信した制御コマンドを、指示対象のコンテンツ提供装置 2 1 0 機種に対応した制御コマンドに変換する。

#### [0080]

この変換は、例えば、事前に用意された変換テーブルを参照することによって行われる。変換テーブルは、例えば、各メーカ(機種)に対するそれぞれの制御コマンドが、何の操作を意味するかを対応付けて格納する。コマンド変換部29は、変換テーブルを参照して、ネットワーク・インタフェース31から受信した制御コマンドの内容とリモコン39が対応するメーカ(機種)から、そのコマンドがどの操作を指示するものであるかを判定する。次に、コマンド変換部29は、再び、変換テーブルを参照して、当該判定された操作をコンテンツ提供装置21に指示するための制御コマンドを検索し、取得する。

#### [0081]

こうして取得されたコンテンツ提供装置21用の制御コマンドの内容は、赤外線の各パル 40 スの発生タイミングを表すものであり、赤外線発光部28は、この内容に沿って赤外線を 出力する。

# [0082]

赤外線発光部28から発信された赤外線は、コンテンツ提供装置21の赤外線受光部23 によって受信され、これがコンテンツ提供装置21によって解釈され、その解釈された内容に従って、所定の操作が行われる。

## [0083]

次に、図5を参照して本実施の形態の受信装置32のデコード部35の処理内容について 説明する。本実施の形態のデコード部35は、第1の実施の形態の受信装置9のデコード 部12と同様、バッファ51および再生速度制御部52を有し、再生速度制御部52が、

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バッファ 5 1 内のストリーミング・データの量に応じてストリーミング・データの再生速度を変化させるよう制御して、滑らかな映像・音声データの再生を維持しようとする。

## [0084]

しかしながら、バッファ 5 1 を有するために、コンテンツ提供装置 2 1 の A / V デ - 9 生成部 2 2 から A / V デ - 9 が生成されてから、映像・音声データが表示装置 4 0 、音声出力装置 4 1 に出力されるまでに非常に大きな遅延時間が存在する。このことは、ユーザがリモコン 3 9 を操作してコンテンツ提供装置 2 1 に指示を送っても、その指示が反映されるのに非常に長い時間がかかることを意味する。特に、階層化されたメニューを表示させて、順次リモコンで指示をしていくような場合は、それぞれの表示を長い間待つ必要があるので、最終的に指示を完了するまでに膨大な時間がかかる。

#### [0085]

また、ユーザが、表示装置 4 0 に表示されている映像等を観てリモコン 3 9 を操作しても、そのリモコン 3 9 の指示を受け取ったコンテンツ提供装置 2 1 は、後続の映像等を提供しているので、その指示を受け付けるモードにない場合もある。

## [0086]

また更に、コンテンツ提供装置 2 1 が D V D 再生装置やビデオテープレコーダである場合には、リモコン 3 9 による指示が遅れるため、所望する再生位置や停止位置で表示が行われないなどの不都合もある。

## [0087]

このような問題を解決するために、本実施の形態のデコード部 35 の再生速度制御部 52 20 は、ユーザがリモコン 39 の操作をした場合に、IRコード処理部 37 からの信号により、オーバーフローしきい値を小さくするように制御し、ユーザが、リモコン 39 を一定時間使用しないと、通常のオーバーフローしきい値に戻すよう制御する。この制御によって、ユーザがリモコン 39 を操作した場合は、バッファ 51 内のストリーミング・データが通常の量であっても、オーバーフローしきい値を上回ることになり、デコーダ 53 と再生制御部 54 によって高速な再生処理が実現される。

# [0088]

従って、再生速度制御部 5 2 は、バッファ 5 1 内のストリーミング・データとしきい値を比較して、その結果に応じて再生速度を変化させるよう制御する点については、図 3 に関連して説明した第 1 の実施の形態における再生速度制御部 1 7 と同様である。しかしなが 30 6 、当該機能に加えて、オーバーフローしきい値を動的に変化させることによってリモコン 3 9 が操作された際の応答速度を速めることができる。

# [0089]

すなわち、本実施の形態では、ユーザがリモコンを操作した場合は、コンテンツ提供装置 21 から A / V データが提供されてから、表示装置 40 等に実際に映像が表示されるまでの遅延時間を小さくすることができる。

# [0090]

図 5 は、このオーバーフローしきい値の変更を概念的に示す概略図である。バッファ 5 1 内のうち、斜線で示されている部分にストリーミング・データが記憶されているものとする。オーバーフローしきい値として、通常しきい値と操作時しきい値のどちらかが選択さ 40 れる。図 5 に示されたストリーミング・データの量では、オーバーフローしきい値が通常しきい値に設定されている場合、デコーダ 5 3 および再生制御部 5 4 は、通常の速度でストリーミング・データの再生処理を行うが、ユーザがリモコン 3 9 を操作して、オーバーフローしきい値が操作時しきい値に設定された場合、バッファ 5 1 内のストリーミング・データのデータ量がオーバーフローしきい値を上回ることになり、デコーダ 5 3 および再生制御部 5 4 は、高速でストリーミング・データの再生処理を行う。

## [0091]

ここで、通常しきい値は、図2に示した第1の実施の形態のオーバーフローしきい値と同様のものである。操作時しきい値は、この通常しきい値とアンダーフローしきい値との間で任意に設定しうるが、通常しきい値に近い値をとると、高速な再生処理が長く継続され 50

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ずに、実効があがらない可能性がある。図5の例では、バッファ51の容量の中程よりや や下に設定されている。

# [0092]

デコーダ 5 3 および再生制御部 5 4 は、再生速度制御部 5 2 から再生速度を受け取ると、その速度でストリーミング・データが表示装置 4 0 等に出力されるようにデコード処理および再生制御を行う。再生速度の調整方法は、第1の実施の形態のデコーダ 1 8 および再生制御部 1 9 について説明したものと同様の方法が考えられる。

#### [0093]

図 6 は、再生速度制御部 5 2 の機能を詳細に説明するためのブロック図である。ユーザがリモコン 3 9 を操作すると、受信装置 3 2 の赤外線受光部 3 8 から I R コード処理部 3 7 に I R コードが送信される。 I R コード処理部 3 7 は、 I R コードを受け取ると、それを制御コマンドに変換して制御コマンド送信部 3 6 に送信するとともに、再生速度制御部 5 2 に I R ビジー信号を送信する。

## [0094]

再生速度制御部52のタイマー63は、一定期間内にIRコード処理部37からIRビジー信号を受け取ると、セレクタ62に、オーバーフローしきい値として操作時しきい値を設定するよう指示する。一定期間内にIRビジー信号を受け取らなかった場合は、セレクタ62に、オーバーフローしきい値として、操作時しきい値より大きい通常しきい値を設定するよう指示する。

#### [0095]

バッファ内データ量取得部61は、バッファ51内のストリーミング・データのデータ量を取得し、再生速度決定部64に送信する。ここで、再生速度決定部64は、図3に示すものと同様のプロセスで、バッファ内のデータ量と、オーバーフローしきい値およびアンダーフローしきい値を比較し、再生速度を決定する。再生速度決定部64に入力されるオーバーフローしきい値は、前述のように、セレクタ62によって適宜切り換えられたものである。

# [0096]

上述したしきい値の切り換えプロセスを図7のフローチャートを参照して説明する。最初に、タイマー63が、ステップS21でIRビジー信号を受信したかどうか判定する。受信したと判定された場合、ステップS22に進み、そこでセレクタ62に、オーバーフロ 30 ーしきい値として操作時しきい値を設定するよう指示する。

## [0097]

ステップS21でIRビジー信号を受信していないと判定された場合、一定の周期でステップS21の判定を繰り返し(ステップS23のNO)、一定時間が経過したら、ステップS24に進む(ステップS23のYES)。ステップS24では、セレクタ62に、オーバーフローしきい値として通常しきい値を設定するよう指示する。

# [0098]

ここまで、この発明の第1および第2の実施の形態に係るデータ配信システム1、20について、コンテンツが映像データおよび音声データを含むものとして説明してきたが、同様に、映像データのみを含むコンテンツを扱うことも可能である。映像データは、音声デ 40 ータに比べてサイズが大きいので、この発明による効果はより顕著である。

# [0099]

## 【発明の効果】

この発明によれば、DVD再生装置などのコンテンツ提供装置からコンテンツ(映像・音声データ)を配信する際に、小さなサイズのバッファを用いても、バッファ内にストリーミング・データが存在しない状態や、バッファがストリーミング・データで一杯になる状態の発生をできるだけ抑止し、滑らかなストリーミング・データの再生を維持するように制御することができる。

#### $[0\ 1\ 0\ 0\ ]$

また、この発明によれば、ユーザがコンテンツ提供装置に対してリモコンの操作をした場 50

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合に、バッファ内のストリーミング・データの量を判定するしきい値を動的に変更することによって、そのコンテンツがコンテンツ提供装置より配信されてから表示装置に表示されるまでの時間を短縮するように制御することができる。

#### 【図面の簡単な説明】

【図1】この発明の第1の実施の形態に係るデータ配信システムの構成を示すブロック図である。

【図2】図1に示すデータ配信システムのデコード部の構成を示すブロック図である。

【図3】図2に示すデータ配信システムの再生速度制御部が再生速度を決定するプロセスのフローチャートである。

【図4】この発明の第2の実施の形態に係るデータ配信システムの構成を示すブロック図 10である。

【図5】図4に示すデータ配信システムのデコード部の構成を示すブロック図である。

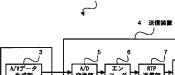
【図6】図5に示すデータ配信システムの再生速度制御部の構成を示すブロック図である。

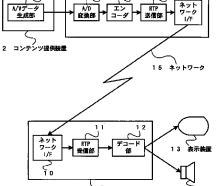
【図7】図6に示すデータ配信システムの再生速度制御部がしきい値を切り換えるプロセスのフローチャートである。

# 【符号の説明】

【図1】

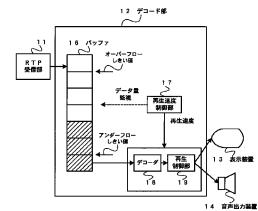
1 , 2 0 ・・・データ配信システム、2 , 2 1 ・・・コンテンツ提供装置、4 , 2 4 ・・・送信装置、9 , 3 2 ・・・受信装置、1 2 , 3 5 ・・・デコード部、1 3 , 4 0 ・・・表示装置、1 4 , 4 1 ・・・音声出力装置、1 5 , 4 2 ・・・ネットワーク、1 6 , 5 1 20 ・・・バッファ、1 7 , 5 2 ・・・再生速度制御部、1 8 , 5 3 ・・・デコーダ、3 7 ・・・I R コード処理部、3 9 ・・・リモコン

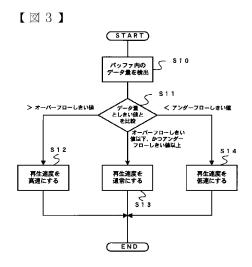


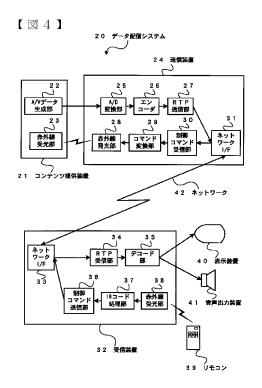


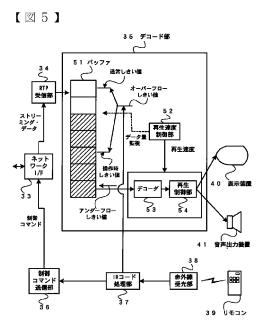
音声出力装置

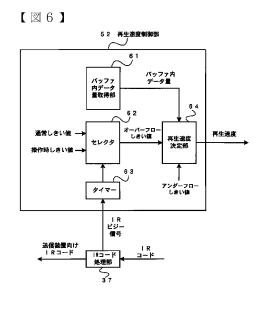
【図2】

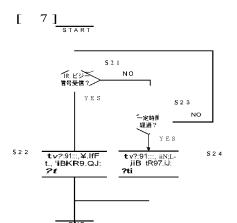












Electronic Patent Application Fee Transmittal						
Application Number:	13532546					
Filing Date:	25-Jun-2012					
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER					
First Named Inventor/Applicant Name:	David Strober					
Filer:	Samuel Borodach/Maryann White					
Attorney Docket Number:	30160-0005001					
Filed as Small Entity						
Filing Fees for Utility under 35 USC 111(a)						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Extension-of-Time:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Miscellaneous:					
Submission- Information Disclosure Stmt	2806	1	90	90	
	Total in USD (\$)			90	

Electronic Acknowledgement Receipt				
EFS ID:	26485305			
Application Number:	13532546			
International Application Number:				
Confirmation Number:	9012			
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER			
First Named Inventor/Applicant Name:	David Strober			
Customer Number:	26211			
Filer:	Samuel Borodach/Maryann White			
Filer Authorized By:	Samuel Borodach			
Attorney Docket Number:	30160-0005001			
Receipt Date:	28-JUL-2016			
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Payment Type	DA
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Deposit Account	061050
Authorized User	Maryann White

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File Listing:						
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.	
	Information Disclosure Statement (IDS) Form (SB08) 30160-0005001IDS.pdf		180856	no	2	
1		30160-0005001IDS.pdf	6f0ef34c0d32ce4f91a00b718795d21c1d2c 2f7c			
Warnings:	·		·!			
Information:						
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	2 Foreign Reference WO2004100500.p		3932377	no	33	
2		WO2004100500.pdf	3d42df2664029eb3fabe7240d74c6b34041 df013			
Warnings:						
Information:						
3 Other	Other Reference-Patent/App/Search	JPOA.pdf	671058	no	12	
	documents		b3bc4b8fce577c2e012a7f06cef5c303b3de 1f96			
Warnings:	-		-!			
Information:						
			714193			
4	Foreign Reference JP2006525771.pdf		0e4a3ea0191039f14a10527be1485cd230d d96bb	no	27	
Warnings:						
Information:						
5 Forei		JP2004356695.pdf	607171		25	
	Foreign Reference		6e5d7abbd545f2cfa42b701bd8905925e2b fd124	no		
Warnings:						
Information:	-	-				
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6			26280d0f6595afa24a989e4aa1dd498f77da f56e	no		
Warnings:						

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

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

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

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

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

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

Attorney Docket No.: 30160-0005001

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: David Strober Art Unit: 2173

Serial No. : 13/532,546 Examiner : Darrin Hope

Filed : June 25, 2012 Conf. No. : 9012

Title : VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT

USING A SWAPPABLE MEDIA PLAYER

# **Mail Stop Amendment**

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

# **AMENDMENT IN REPLY TO OFFICE ACTION OF JULY 15, 2016**

Please consider the following reply.

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# Amendments to the claims

This listing of claims replaces all prior versions and listings of claims in the application:

# Listing of Claims:

- 1. (Canceled)
- 2. (Currently Amended) The method of claim [[1]] 28, wherein the unique identifier comprises a QR code.
- 3. (Canceled)
- 4. (Currently Amended) The method of claim [[1]] 28, further including:

receiving, at the switchboard server system, in the display host a third message originating from the handheld Internet-enabled personal computing device, wherein the third message comprises the unique identifier and the first universal command the switchboard server system-instructing that particular second content is to be played in the first session in the first session using a specified second media player of the media players;

converting, using the switchboard server system, the first universal command into a corresponding third converted code specific to the specified second media player to control playing of the second content on the specified second media player;

receiving, at the display host, the third converted code and the unique identifier from the switchboard server system;

in response to <u>receiving the third converted code and the unique identifier</u> the third message, retrieving and loading, by the display host, the <u>specified</u> second media player using the first instance of the swappable media player;

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playing, at the display host, the particular second content in the first session using the specified second media player by executing the third converted code; and

causing, by the display host, a presentation of the second content to be mirrored onto the virtual client residing on the display device.

- 5. (Currently Amended) The method of claim [[1]] <u>28</u> wherein the <u>first</u> content comprises video.
- 6. (Currently Amended) The method of claim [[1]] <u>28</u> wherein the <u>first</u> content comprises streaming media.
- 7. (Currently Amended) The method of claim [[1]] <u>28</u> wherein the <u>first</u> content comprises visual content.
- 8. (Currently Amended) The method of claim [[1]] <u>28</u>, further including contacting the switchboard server system <u>using the display host</u> to check whether there is a message for the first session, wherein the first session is identified to the switchboard session using the <del>previously assigned</del> unique identifier.
- 9. (Canceled)
- 10. (Currently Amended) The method of claim [[9]] 4, further including: establishing a third communications link between the display host and a second display device;

receiving, [[in]] at the display host, a third fourth message, wherein the fourth message comprises a second unique identifier associated with the second display device and a second session opened using a second instance of the swappable media player, and the first universal command instructing that indicating that particular second third content is to be played in the second session using a specified second third media player of the media players;

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converting, using the switchboard server system, the first universal command into a corresponding fourth converted code specific to the specified third media player to control playing of the third content on the specified third media player;

receiving, at the display host, the fourth converted code and the second unique identifier from the switchboard server system;

in response to the third message fourth converted code and the second unique identifier, retrieving and loading, by the display host, the specified third the second media player using the second instance of the swappable media player;

playing, at the display host, the particular second third content in the second session using the specified second media player by executing the fourth converted code; and

causing, by the display host, a presentation of the second third content to be mirrored onto the <u>a</u> virtual client residing on the second display device.

- 11. (Currently Amended) The method of claim 10 wherein the first and second sessions at least partially overlap in time with one another.
- 12. (Currently Amended) The method of claim 3, wherein the display host retrieves the specified <u>first</u> media player from a content provider via the Internet.
- 13. (Currently Amended) A system for presenting content comprising:

a display host operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; and

a switchboard server system,

wherein the switchboard server system is operable to perform operations including:

receiving a first message originating from a handheld Internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises a unique identifier associated with a display device and a first session opened using a first instance of the swappable media player, and a first

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universal command instructing that first content be played in the first session using a specified first media player of the media players;

converting the first universal command into a corresponding first converted code specific to the specified first media player to control playing of the first content on the specified first media player; and

transmitting the first converted code and the unique identifier to the display host; and

wherein the display host is operable to perform operations including:

receiving a communication from a display device storing a virtual client;

in response to receiving the communication, opening a first session using a first instance of the swappable media player;

receiving a unique identifier for the first session from the switchboard server system;

displaying the unique identifier in the first session;

causing the image of the unique identifier to be mirrored onto the virtual client residing on the display device

receiving a first message the first converted code and the unique identifier from the display host from the switchboard server system instructing that particular content be played in the first session using a specified one of the media players, wherein the first message is sent by the switchboard server system to the display host in response to a message originating in a handheld Internet-enabled personal computing device and containing the unique identifier;

in response to receiving the first message <u>and the unique identifier</u>, retrieving and <u>loading</u> the specified <u>first</u> media player using the first instance of the swappable media player;

playing the particular first content in the first session using the specified first media player by executing the first converted code; and

causing a presentation of the particular <u>first</u> content to be mirrored onto the <u>a</u> virtual client residing on the display device;

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wherein the switchboard server system is further operable to perform operations including:

receiving a second message originating from the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier and a second universal command identifying a particular play control to be performed with respect to the first content being played in the first session, wherein the second universal command is different than the first universal command;

converting the second universal command into a corresponding second converted code specific to the specified first media player to perform the particular play control; and transmitting the second converted code and the unique identifier to the display

host; and

wherein the display host is further operable to perform operations including

receiving a second message the second converted code and the unique identifier from the display host from the switchboard server system instructing that a particular play control command be executed with respect to the particular content being played in the first session, wherein the second message is sent by the switchboard server system to the display host in response to another message originating in the handheld Internetenabled personal computing device and containing the unique identifier; and

executing the <u>second converted code to perform the particular play control</u>

command with respect to the <u>particular first content being played in the first session that</u>

is mirrored onto the virtual client residing on the display device.

operations including converting the particular play control command contained in the second message into a corresponding code to control playing of the content on the particular media player.

- 14. (Canceled)
- 15. (Currently Amended) The system of claim 13, wherein the switchboard server system is further operable to perform operations including:

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 Filed
 : June 25, 2012

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 : 7 of 18

receiving a third message originating from the handheld Internet-enabled personal computing device, wherein the third message comprises the unique identifier and the first universal command instructing that second content be played in the first session in the first session using a specified second media player of the media players;

converting, using the switchboard server system, the first universal command into a corresponding third converted code specific to the specified second media player to control playing of the second content on the specified second media player; and

transmitting the third converted code and the unique identifier to the display host; and

wherein the display host is further operable to perform operations including:

receiving the third converted code and the unique identifier from the switchboard server system a third message from the switchboard server system indicating that particular second content is to be played in the first session using a specified second media player;

in response to receiving the third <u>converted code and the unique identifier</u> message, retrieving the second media player from a content provider and loading the second media player <u>using the first instance of the swappable media player</u>;

playing the particular second content in the first session using the specified second media player by executing the third converted code; and

causing a presentation of the second content to be mirrored onto the virtual client residing on the display device.

16. (Currently Amended) The system of claim [[13]] 15, wherein the system further includes a second display device storing a virtual client,

wherein the switchboard server system is further operable to perform operations including:

receiving, a fourth message, wherein the fourth message comprises a second unique identifier associated with a second display device and a second session opened using a second instance of the swappable media player, and the first universal command

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instructing that third content be played in the second session using a specified third media player of the media players;

converting the first universal command into a corresponding fourth converted code specific to the specified third media player to control playing of the third content on the specified third media player; and

transmitting the fourth converted code and the second unique identifier to the display host; and

wherein the display host is further operable to perform operations including:

receiving a communication from the second display device;

in response to receiving the communication from the second display device, opening a second session using a second instance of the swappable media player;

requesting from the switchboard server system assignment of a second unique identifier for the second session;

receiving a second unique identifier for the second session from the switchboard server system;

displaying the second unique identifier in the second session;

causing the image of the second unique identifier to be mirrored onto the virtual elient residing on the second display device.

receiving a fourth message from the switchboard server system indicating that particular second content is to be played in the second session using a specified second media player;

receiving the fourth converted code and the second unique identifier from the switchboard server system;

in response to the fourth converted code and the second unique identifier, retrieving the specified third second media player from a content provider and loading the second third media player using the second instance of the swappable media player;

playing the particular second third content in the second session using the specified second media player by executing the fourth converted code; and

causing a presentation of the second third content to be mirrored onto the <u>a</u> virtual client residing on the second display device.

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# 17 - 25. (Canceled)

- 26. (Currently Amended) The method of claim [[1]] 28, wherein converting the <u>first</u> universal command particular play control command into the corresponding <u>first converted</u> code comprises selecting the corresponding <u>first converted</u> code from among a plurality of specific codes, each of which represents a corresponding playback control command for a respective media player.
- 27. (Currently Amended) The method of claim [[1]] <u>28</u>, wherein converting the <u>first</u> <u>universal command particular play control command</u> into the corresponding <u>first converted code</u> comprises:

determining an identity of the specifie specified first media player;

loading an appropriate set of protocols or application programming interfaces from a library based on the identity of the specific specified first media player; and

converting the <u>first universal</u> command into the corresponding <u>first converted</u> code based on the set of protocols or application programming interfaces.

28. (Currently Amended) A machine-implemented method of presenting content on a display device, the method comprising:

establishing a first communications link between a display host and a switchboard server system, and a second communications link between the display host and a display device, receiving, in a display host, a communication from a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

in response to receiving the communication from the display device, opening a first session using a first instance of the swappable media player;

requesting assignment of a unique identifier for the first session from a switchboard server system;

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receiving a unique identifier for the first session from the switchboard server system; displaying the unique identifier in the first session;

causing the display of the unique identifier to be mirrored onto a virtual client residing on the display device;

receiving, [[in]] <u>at</u> the switchboard server system, a first message originating [[in]] <u>from</u> a handheld Internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises <u>the a unique</u> identifier <u>associated with the display device and a first session opened using a first instance of the swappable media player, and a first <u>universal</u> command instructing that <u>particular first</u> content be played in the first session using a specified <u>first media player one</u> of the media players,</u>

converting, using the switchboard server system, the first universal command into a corresponding first converted code specific to the specified first media player to control playing of the particular first content on the specified first media player;

receiving, at [[in]] the display host, the first <u>converted</u> code and <del>information</del> <del>corresponding to</del> the unique identifier from the switchboard server system;

in response to receiving the first <u>converted</u> code and the unique identifier, retrieving and loading, by the display host, the specified <u>first</u> media player using the first instance of the swappable media player;

playing, at the display host, the particular first content in the first session using the specified first media player by executing the first converted code;

causing, by the display host, a presentation of the particular first content to be mirrored onto the virtual client residing on the display device;

receiving, [[in]] <u>at</u> the switchboard server system, a second message originating [[in]] <u>from</u> the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier <u>and a second universal command identifying a particular play control to be performed <u>and a second command instructing that a particular play control command be executed</u> with respect to the <u>particular first</u> content being played in the first session, wherein the second universal command is different than the first universal command;</u>

converting, using the switchboard server system, the second universal second command into a corresponding second converted second code specific to the specified first media player to

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perform the particular play control to control playing of the particular content on the specified media player;

receiving, at [[in]] the display host, [[a]] the second converted second code and information corresponding to the unique identifier from the switchboard server system; and

executing, by the display host, the <u>second converted code to perform the particular play</u> control <del>command</del> with respect to the <u>particular first</u> content being played in the first session that is mirrored onto the virtual client residing on the display device.

- 29. (New) The method of claim 28, wherein the first universal command and the second universal command are not specific to the first media player
- 30. (New) A method of presenting content, the method comprising:

executing, at a display host, a plurality of instances of a browser, wherein each instance of the browser is configured to retrieve and load any of a plurality of different media players to play specified content;

associating, at a switchboard server system, a first instance of the browser with a first handheld Internet-enabled personal computing device and a first display device;

receiving, at the switchboard server system from the first personal computing device, a first message comprising a unique identifier associated with the first instance of the browser and the first display device, and a universal command instructing that first content be played in the first instance of the browser using a first media player;

converting, using the switchboard server system, the universal command to a first portion of code specific to the first media player to control playing of the first content on the first media player;

transmitting, from the switchboard server system, the first portion of code and the unique identifier to the display host;

retrieving and loading, by the display host, the first media player using the first instance of the browser;

executing, at the display host, the first portion of code to play the first content in the first instance of the browser using the first media player; and

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causing, by the display host, a presentation of the first content to be mirrored onto a virtual client residing on the first display device.

# 31. (New) The method of claim 30, further comprising:

receiving, at the switchboard server system from the first Internet-enabled personal computing device, a second message comprising the unique identifier and the universal command instructing that second content be played in the first instance of the browser using a second media player;

converting, using the switchboard server system, the universal command to a second portion of code specific to the second media player to control playing of the second content on the second media player;

transmitting, from the switchboard server system, the second portion of code and the unique identifier to the display host;

retrieving and loading, by the display host, the second media player using the first instance of the browser;

executing, at the display host, the second portion of code to play the second content in the first instance of the browser using the second media player; and

causing, by the display host, a presentation of the second content to be mirrored onto the virtual client residing on the first display device.

# 32. (New) The method of claim 31, further comprising:

associating, at a switchboard server system, a second instance of the browser with a second handheld Internet-enabled personal computing device and a second display device;

receiving, at the switchboard server system from the second personal computing device, a third message comprising a second unique identifier associated with the second display device and the second instance of the browser, and the universal command instructing that third content be played in the second instance of the browser using a third media player;

converting, using the switchboard server system, the universal command to a third portion of code specific to the third media player to control playing of the third content on the third media player;

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transmitting, from the switchboard server system, the third portion of code and the second unique identifier to the display host;

retrieving and loading, by the display host, the third media player using the second instance of the browser;

executing, at the display host, the third portion of code to play the third content in the second instance of the browser using the third media player;

causing, by the display host, a presentation of the third content to be mirrored onto a virtual client residing on the second display device.

33. (New) The method of claim 32, wherein the universal command is not specific to the first, second, or third media players.

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# **REMARKS**

Claims 2, 4-8, 10-13, 15-16, 26-33 are presented for further examination.

# Claim Rejections - 35 USC § 103

Claims 1, 4-8, 13, 15, 16, 26, 27, and 28 were rejected under pre-AIA 35 U.S.C. 103(a) as allegedly being unpatentable over Fok Ah Chuen et al. (US 2012/0102209 Al) (hereinafter "Fok Ah Chuen") in view of Malik (US 2007/0155506 Al), and further in view of Mahajan et al. (US 2009/0248802 Al) (hereinafter "Mahajan").

Claims 2 and 12 were rejected under pre-AIA 35 U.S.C. 103(a) as allegedly being unpatentable over Fok Ah Chuen, Malik, and Mahajan, and further in view of Sukeda et al. (US 2009/0172780 Al) (hereinafter "Sukeda").

Claims 9-11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Fok Ah Chuen, Malik, and Mahajan, and further in view of Hu et al. (US 8,402,494 B1) (hereinafter "Hu").

Reconsideration is respectfully requested.

Without agreeing with the Office's positions and in an effort to compact prosecution, the Applicant has canceled independent claim 1 and amended dependent claims 2, 4-8, 10-12, and 26-27 to depend, either directly, or indirectly, from claim 28.

Further, the Applicant has amended claim 28 to recite:

28. A machine-implemented method of presenting content on a display device, the method comprising:

establishing a first communications link between a display host and a switchboard server system, and a second communications link between the display host and a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content;

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receiving, <u>at</u> the switchboard server system, a first message originating <u>from</u> a handheld Internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises <u>a</u> unique identifier <u>associated with the display device and a first session opened using a first instance of the swappable media player, and a first <u>universal</u> command instructing that <u>first</u> content be played in the first session using a specified <u>first media player</u> of the media players,</u>

converting, using the switchboard server system, the first universal command into a corresponding first converted code specific to the specified first media player to control playing of the first content on the specified first media player;

receiving, at the display host, the first <u>converted</u> code and the unique identifier from the switchboard server system;

in response to receiving the first <u>converted</u> code and the unique identifier, retrieving and loading, by the display host, the specified <u>first</u> media player using the first instance of the swappable media player;

playing, at the display host, the <u>first</u> content in the first session using the specified <u>first</u> media player <u>by executing the first converted code</u>;

causing by the display host, a presentation of the <u>first</u> content to be mirrored onto the virtual client residing on the display device;

receiving, <u>at</u> the switchboard server system, a second message originating <u>from</u> the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier <u>and a second universal command identifying a particular play control to be performed with respect to the <u>first</u> content being played in the first session, <u>wherein the second universal command</u>;</u>

converting, using the switchboard server system, the second universal command into a corresponding second converted code specific to the specified first media player to perform the particular play control;

receiving, at the display host, the <u>second converted</u> code and the unique identifier from the switchboard server system;

executing, by the display host, the <u>second converted code to perform the particular play control</u> with respect to the <u>first content being played in the first session that is mirrored onto the virtual client residing on the display device.</u>

That is, a switchboard server system receives <u>universal commands</u> from a handheld Internet-enabled personal computing device, and converts those universal commands into <u>converted codes specific to a specified media player</u>. The converted codes are subsequently received by the display host for execution. Support for these amendments can be found, for example, in paras. [0026] – [0035] of the published application (US 2013/0031478 A1).

The cited references do not disclose or suggest the aforementioned features, either alone or in any combination. Fok Ah Chuen discloses a "method for establishing a Thin Client session between a Thin Client device ... and a Thin Client server" (see Abstract). Malik discloses implementations that "enable an interactive game" (see Abstract). However, neither Fok Ah

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Chuen nor Malik disclose or suggest converting a "<u>universal command</u>" to a "<u>converted code</u>" <u>specific to a specified media player</u> at all, much less receiving a "universal command" at a switchboard server from a handheld Internet-enabled personal computing device, converting the "universal command" to "converted code" specific to a specified media player at the switchboard server, and receiving the "converted code" at the display host for execution, as recited in claim 28. As such, Fok Ah Chuen and Malik do not disclose or suggest each of the features of amended claim 28, either alone or in combination.

Mahajan does not cure the foregoing deficiencies. Mahajan discloses "[t]echniques relating to managing multimedia transmissions in terminal services" (see Abstract). Although Mahajan generally discloses that a server can "intercept" a command from a "server media platform" to a "client media platform," Mahajan specifically teaches that the "server media platform ... translates[s] intercepted platform specific media commands into generic or abstracted media commands" (see para. [0036]). Subsequently, these "generic or abstracted media commands" are transmitted from the server media platform to the client media platform (see para. [0036]).

That is, Mahajan teaches a server system that performs essentially the <u>opposite</u> as the switchboard server system recited in claim 28 (e.g., a server system that generates <u>converted code specific to a specified media player from universal commands</u>, and passes the specific <u>converted code</u> to a display host for execution).

Further, Mahajan does not disclose or suggest how to modify a server media platform to convert universal commands and send converted code in the specific manner claimed, nor does Manahan disclose or suggest any benefit that might be obtained from making such a modification. As such, the aforementioned subject matter also would not have been obvious in view of Mahajan, either alone or in any combination with Fok Ah Chuen and Malik.

Sukeda and Hu also do not cure the foregoing deficiencies. Sukeda discloses techniques "for displaying various contents such as moving images, still images, and texts" (see Abstract). Hu discloses techniques for "[d]isplaying video on a video display device" (see Abstract). However, neither Sukeda nor Hu disclose or suggest converting a "universal command" to a "converted code" specific to a specified media player at all, much less receiving a "universal command" at a switchboard server from a handheld Internet-enabled personal computing device,

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converting the "universal command" to "converted code" specific to a specified media player at the switchboard server, and receiving the "converted code" at the display host for execution, as recited in claim 28. As such, the aforementioned subject matter also would not have been obvious in view of Sukeda or Hu, either alone or in any combination with Fok Ah Chuen, Malik, and Mahajan.

Therefore, in view of the foregoing amendments and remarks, the rejection of claim 28 should be withdrawn and the claim allowed. Claims 2, 4-8, 10-12, and 26-27 depend either directly or indirectly from claim 28, and for at least the same reasons, the rejection of claims 2, 4-8, 10-12, and 26-27 also should be withdrawn and the claims allowed.

Claim 13 has been amended to recite similar limitations as claim 28, and for at least the same reasons as discussed above, the rejection of claim 13 also should be withdrawn and the claim allowed. Claims 15 and 16 depend from claim 13 and for at least the same reasons, the rejection of claims 15 and 16 also should be withdrawn and the claims allowed.

# New Claims

Newly presented claim 29 depends from claim 28, and should be allowable at least for the reasons discussed above. Furthermore, claim 29 recites additional language that renders it independently patentable. Support for the features recited in claim 29 can be found, for example, in para. [0029] of the published application.

Newly presented claims 30-33 also should be allowed. For example, claim 30 recites that a "switchboard server system" can receive a "universal command" from a "first personal computing device," and convert the "universal command" into a "first portion of code <u>specific to [a] first media player</u>" on a "first instance of [a] browser." Further, claim 31 recites that the "switchboard server system can receive the <u>same</u> "universal command" from the "first personal computing device," and convert that "universal command" into a <u>different</u> "second portion of code <u>specific to [a] second media player</u>" on the "first instance of the browser." Further, claim 32 recites that the "switchboard server system can receive the <u>same</u> "universal command" from a <u>different</u> "second personal computing device," and convert that "universal command" into a <u>different</u> "second portion of code <u>specific to [a] third media player</u>" on a <u>different</u> "second instance of the browser." That is, the same universal command can be converted into different portions of

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code with respect to different media players and/or different instances of the browser. Support for the features recited in claims 30-33 can be found, for example, in paras. [0026] – [0035] of the published application.

# Conclusion

The Applicant submits that all of the claims are in condition for allowance and request entry of the proposed amendments and confirmation of allowance by the Examiner. It is believed that all of the pending issues have been addressed. However, the absence of a reply to a specific rejection, issue, or comment does not signify applicants' agreement. In addition, because the arguments made above may not be exhaustive, there may be additional reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Further, the amendment of any claim does not necessarily signify concession of unpatentability of the claim prior to its amendment.

The fees for excess claims and extension of time are being paid with this reply on the Electronic Filing System. Apply those fees and any other necessary charges or credits to Deposit Account 06-1050, referencing the above attorney docket number.

Respectfully submitted,

Date: January 13, 2017 /Richard Wong/

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30955513.doc

Electronic Patent Application Fee Transmittal									
Application Number:	13:	532546							
Filing Date:	25-	25-Jun-2012							
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPAE MEDIA PLAYER								
First Named Inventor/Applicant Name:	David Strober								
Filer:	Richard Wong/Maryannq White								
Attorney Docket Number:	30160-0005001								
Filed as Small Entity									
Filing Fees for Utility under 35 USC 111(a)									
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)				
Basic Filing:									
Pages:									
Claims:									
Miscellaneous-Filing:									
Petition:									
Patent-Appeals-and-Interference:									
Post-Allowance-and-Post-Issuance:									
Extension-of-Time:									

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	2253	1	700	700
Miscellaneous:				
	Total in USD (\$)			700

Electronic Acl	knowledgement Receipt
EFS ID:	28058206
Application Number:	13532546
International Application Number:	
Confirmation Number:	9012
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER
First Named Inventor/Applicant Name:	David Strober
Customer Number:	26211
Filer:	Richard Wong/Maryannq White
Filer Authorized By:	Richard Wong
Attorney Docket Number:	30160-0005001
Receipt Date:	13-JAN-2017
Filing Date:	25-JUN-2012
Time Stamp:	13:09:26
Application Type:	Utility under 35 USC 111(a)

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1		30160-0005001Response.pdf	e238859a09d5f825bc473254a16172e2053 6fae5	yes	18	
	Multir	part Description/PDF files in .:	zip description			
	Document De	Document Description				
	Amendment/Req. Reconsiderati	Amendment/Req. Reconsideration-After Non-Final Reject				
	Claims	;	2	13		
	Applicant Arguments/Remarks	Made in an Amendment	14	18		
Warnings:						
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2	Fee Worksheet (SB06)	fee-info.pdf	2c653cb42ceb466c7a19cdd3955ab7cb450 871dc	no	2	
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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.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						on or Docket Number 3/532,546	Filing Date 06/25/2012	To be Mailed	
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				APPLICA	ATION AS FIL	ED – PA	RT I		
			(Column 1	)	(Column 2)				
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Ш	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 FE (37 CFR 1.16(o), (p),		N/A		N/A		N/A		
	TAL CLAIMS CFR 1.16(i))		min	us 20 = *			X \$ =		
IND	EPENDENT CLAIM CFR 1.16(h))	IS	mi	inus 3 = *			X \$ =		
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	MULTIPLE DEPEN	NDENT CLAIM	1 PRESENT (3	7 CFR 1.16(j))					
* If t	the difference in colu	umn 1 is less t	than zero, ente	r "0" in column 2.			TOTAL		
		(Column 1	1)	APPLICAT	ION AS AMEN		ART II		
AMENDMENT	01/13/2017	CLAIMS REMAINING AFTER AMENDME		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TR <b>A</b>	RATE (\$)	ADDITIO	ONAL FEE (\$)
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Ë	Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0		x \$210 =		0
AM	Application Si	ize Fee (37 Cf	FR 1.16(s))						
	FIRST PRESEN	NTATION OF MU	JLTIPLE DEPEN	DENT CLAIM (37 CFF	국 1.16(j))				
							TOTAL ADD'L FEE		0
		(Column 1	1)	(Column 2)	(Column 3	1)			
		CLAIMS REMAININ AFTER AMENDME	lG	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EX	TR <b>A</b>	RATE (\$)	ADDITIO	ONAL FEE (\$)
ENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=		X \$ =		
MO	Independent (37 CFR 1.16(h))	*	Minus	***	=		X \$ =		
Application Size Fee (37 CFR 1.16(s))									
A	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
							TOTAL ADD'L FEE		
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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-	13/532,546	06/25/2012	David Strober	30160-0005001	9012

TITLE OF INVENTION: VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	08/08/2017

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
(571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correct maintenance fee notifica	form should be used to correspondence including delow or directed officions.	for transming the Pate nerwise in	tting the ISS ent, advance of Block 1, by (	UE FEE and PUBLI orders and notification (a) specifying a new	CATI n of n corres	ON FEE (if requinaintenance fees we pondence address;	ired). B vill be i and/or	locks 1 through 5 sh nailed to the current (b) indicating a separ	ould be correspond ate "FEE	ompleted when dence address a ADDRESS" fo
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APPLICATION NO.	FILING DATE			FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIR	MATION NO.
13/532,546	06/25/2012			David Strober			3	0160-0005001		9012
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PLEASE NOTE: Un	less an assignee is ident	ified below	v, no assignee	data will appear on	the pa	atent. If an assign	ee is id	entified below, the do	cument ha	as been filed fo
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(II) WELL OF ABOU	GIVEE			(b) RESIDENCE. (	CITT	and STATE OR C	.00111	K1)		
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4a. The following fee(s)	are submitted:		4	b. Payment of Fee(s):	(Plea	se first reapply ar	ıy prev	iously paid issue fee s	hown abo	ove)
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Applicant assertin	g small entity status. See	37 CFR 1.	.27	fee payment in the micro entity amount will not be accepted at the risk of application abandonment <a href="NOTE">NOTE:</a> If the application was previously under micro entity status, checking this box will be taken						
Applicant changing	ng to regular undiscounte	d fee status	·.	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.				small or micro		
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Registration No. _

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 _ Typed or printed name _



### 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.
13/532,546	06/25/2012	David Strober	30160-0005001	9012
26211 75	90 05/08/2017		EXAM	INER
	RDSON P.C. (NY)	НОРЕ, І	DARRIN	
P.O. BOX 1022	IN 55440 1000		ART UNIT	PAPER NUMBER
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			2173	

DATE MAILED: 05/08/2017

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(Applications filed on or after May 29, 2000)

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

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

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

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

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

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

# **Privacy Act Statement**

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

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

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

	<b>Application No.</b> 13/532,546	Applicant(s) STROBER, DAVID			
Notice of Allowability	Examiner DARRIN HOPE	Art Unit 2173	AIA (First Inventor to File) Status No		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					

The MAILING DATE of this communication appears on the All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAILING TOP PROVIDED IN THE MERITS IS (OR REMAILING TOP PATENT RIGHTS). The Allowable of Allowable of Allowable of Allowable of Allowable of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPERICAL OF THE MAILING TOP PATENT RIGHTS.	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS his application is subject to withdrawal from issue at the initiative
1. A This communication is responsive to the amendments filed on 01/13/	
A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were file	d on
<ol> <li>An election was made by the applicant in response to a restriction recrequirement and election have been incorporated into this action.</li> </ol>	quirement set forth during the interview on; the restriction
3.  The allowed claim(s) is/are 2,4-8,10-13,15,16 and 26-33. As a result Patent Prosecution Highway program at a participating intellectual prinformation, please see http://www.uspto.gov/patents/init_events/pph/	property office for the corresponding application. For more
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 rec	eived.
2.   Certified copies of the priority documents have been rec	eived in Application No
<ol><li>Copies of the certified copies of the priority documents to</li></ol>	nave 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 connoted below. Failure to timely comply will result in ABANDONMENT of the THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	1,3,1,3,3,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") must be subm	itted.
including changes required by the attached Examiner's Amendr Paper No./Mail Date	nent / Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sho each sheet. Replacement sheet(s) should be labeled as such in the header	
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGIC attached Examiner's comment regarding REQUIREMENT FOR THE D</li> </ol>	
Attachment(s)	
1. Notice of References Cited (PTO-892)	5. 🛮 Examiner's Amendment/Comment
2. M Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 07/28/2016	6. ☑ Examiner's Statement of Reasons for Allowance
3. Examiner's Comment Regarding Requirement for Deposit	7.  Other
of Biological Material 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date	
/TADEESE HAILU/	/DARRIN HOPE/
Primary Examiner, Art Unit 2173	Examiner, Art Unit 2173

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-13) 20170428

Notice of Allowability

Part of Paper No./Mail Date

Application/Control Number: 13/532,546 Page 2

Art Unit: 2173

#### **DETAILED ACTION**

1. The present application is being examined under the pre-AIA first to invent provisions. This Office Action is responsive to the communications filed on 13 January 2017. Claims 2, 4-8, 10-13, 15-16, 26-33 are pending.

### **EXAMINER'S AMENDMENT**

- 2. Authorization for this examiner's amendment was given in a telephone interview with Richard Wong (Reg. No. 73,259) on April 28, 2017.
- 3. Amend claims as follows:
  - 12. (Currently Amended) The method of claim [[3]] 28, wherein the display host retrieves the specified first media player from a content provider via the Internet. 29. (Currently Amended) The method of claim 28, wherein the first universal command and the second universal command are not specific to the first media player.
- 4. 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.

# Examiner's Statement of reason of Allowance

- 5. Claims 2, 4-8, 10-13, 15-16, 26-33 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a method and system for presenting content.

The prior art made record fails to anticipate or make the claimed invention.

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The prior art, with respect to claim 28, fails to teach or suggest, alone or combined, "establishing a first communications link between a display host and a switchboard server system, and a second communications link between the display host and a display device, wherein the display host is operable to execute multiple instances of a browser each of which operates as a swappable media player, wherein each instance of the swappable media player is operable to retrieve and load any of a plurality of different media players needed to play specified content; receiving, at the switchboard server system, a first message originating from a handheld internet-enabled personal computing device distinct from the display host and the switchboard server system, wherein the first message comprises a unique identifier associated with the display device and a first session opened using a first instance of the swappable media player, and a first universal command instructing that first content be played in the first session using a specified first media player of the media players, converting, using the switchboard server system, the first universal command into a corresponding first converted code specific to the specified first media player to control playing of the first content on the specified first media player; receiving, at the display host, the first converted code and the unique identifier from the switchboard server system; in response to receiving the first converted code and the unique identifier, retrieving and loading, by the display host, the specified first media player using the first instance of the swappable media player; playing, at the display host. the first content in the first session using the specified first media player by executing the first converted code; causing, by the display host, a presentation of the first content to be mirrored onto the virtual client residing on the display device; receiving, at the switchboard server system, a second message originating from the handheld Internet-enabled personal computing device, wherein the second message comprises the unique identifier and a second universal command identifying a particular play control to be performed with respect to the first content

Page 3

Art Unit: 2173

being played in the first session, wherein the second universal command is different than the first universal command; converting, using the switchboard server system, the second universal command into a corresponding second converted code specific to the specified first media player to perform the particular play control; receiving, at the display host the second converted code and the unique identifier from the switchboard server system; executing, by the display host, the second converted code to perform the particular play control with respect to the first content being played in the first session that is mirrored onto the virtual client residing on the display device" as recited in claim 28. Claims 2, 4-8, 10-12, 26-27, and 29 are dependent either directly or indirectly upon claim 28, and for at least the same reasons are allowed.

Claim 13 has been amended to recite similar limitations as claim 28, and for at least the same reasons as discussed above, claim 13 is allowed. Claims 15 and 16 depend from claim 13 and, for at least the same reasons, are allowed.

above with respect to claim 28. Additionally, the prior art fails to teach or suggest, alone or combined, a "switchboard server system" that can receive a "universal command" from a "first personal computing device," and convert the "universal command" into a "first portion of code <u>specific to first media player</u>" on a "first instance of [a] browser" as disclosed in claim 30. Claims 31-33 are dependent either directly or indirectly upon claim 30, and for at least the same reasons are allowed.

7. 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."

Art Unit: 2173

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARRIN HOPE whose telephone number is (571)270-5079. The examiner can normally be reached on M-TH - 7-4:30, F - 7-3:30, Alt. Friday Off.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu D. Vu can be reached on (571)272-4057. 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: 13/532,546

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Art Unit: 2173

/DARRIN HOPE/ Examiner, Art Unit 2173

/TADEESE HAILU/ Primary Examiner, Art Unit 2173

#### Application/Control No. Applicant(s)/Patent Under Reexamination 13/532,546 STROBER, DAVID Notice of References Cited Examiner Art Unit Page 1 of 1 **DARRIN HOPE** 2173 **U.S. PATENT DOCUMENTS** Document Number Date Name **CPC Classification US Classification** Country Code-Number-Kind Code MM-YYYY US-2012/0054616 A1 03-2012 Mittal; Millind G06F17/30899 715/722 Α US-В US-С US-D US-Ε US-F US-G US-Н US-US-J US-Κ US-L US-М FOREIGN PATENT DOCUMENTS Document Number Date Country Name **CPC Classification** Country Code-Number-Kind Code MM-YYYY Ν 0 Р Q R S Т **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) W

*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.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

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**Notice of References Cited** 

Part of Paper No. 20170428

# **EAST Search History**

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

Ref Hits #	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1 200	["8595342" "20100138744" "20090106357" "20080256378" "20020161797" "20100115119" "20090275403" "20130165164" "20090261841" "8631407" "8622839" "8588824" "20090282245" "20090251409" "201100313135" "8909296" "20120084653" "20110296478" "20170294292" "7996566" "7716376" "7665115" "20120158511" "8876599" "20080168568" "20080175569" "8162753" "8918812" "20110125712" "8397266" "20090177966" "20120271688" "8755521" "7849160" "20080301189" "20100118200" "8026805" "20100121693" "20040045040" "20090133067" "8910200" "7627808" "20040252400" "7975312" "8020185" "20040252400" "7975312" "8020185" "20080114861" "7632186" "8025572" "8556722" "20040239753" "20090228897" "20070011713" "2012022064" "8069414" "8352371" "7529831" "20060173974" "20080181575" "20100177122" "2007003224" "20120166950" "20110035466" "7809790" "8175638" "7984097" "8185625" "20110258623" "20090228975" "20100281508" "8055781" "20050032127" "7962548" "8099740" "8122236" "2010028975" "20100329897" "2010028975" "20100329897" "20100332983" "2010028975" "20100332983" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "8175638" "20090179399" "817563429" "2010028975" "20100325549" "806014585" "2007076865" "9021370" "2010032988" "8131993" "20080120652" "20090190902" "20080319856" "6859838" "8060407" "7949333" "8566301" "20070265073" "20000028572" "20070166683" "8244172" "20070100833" "8931105" "20060287021" "8752083" "8060407" "7949333" "8566301" "2011013354" "20100325549" "8062134" "8374488" "20050034151" "8909776" "20100325549" "8062134" "8374488" "2005003118231" "8229856" "20110155026" "7787904" "8090204639" "8724696" "8949376" "20090204639" "8724696" "8949376" "2009009085524" "20100166950" "7934010" "892288" "8010616909" "7934010" "89229856" "20100169509" "7934010" "89229856" "20100169509" "7934010" "89229856" "20100169509" "7934010" "89	US-PGPUB; USPAT	OR	OFF	2017/04/28

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

	Ref Hits	Search Query	DBs	Default	Plurals	Time	
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#			<b></b>	Operator		Stamp
L31		(((display or gaming or tablet or personal or laptop)near2 (device or apparatus or terminal or console or computer )) or television) same (send\$3 or transmi\$9) same "unique identifier" same (host or stb or PC)	US- PGPUB; USPAT	OR	OFF	2017/04/28 17:18
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 $\textbf{C:} \ \textbf{Users} \ \textbf{dhope} \ \textbf{Documents} \ \textbf{EAST} \ \textbf{Workspaces} \ \textbf{13532546} \\ \textbf{amd.wsp}$ 

Attorney's Docket No.: 30160-0005001

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: David Strober Art Unit 2173

Serial No. : 13/532,546 : 13/532,546 : June 25, 2012 Examiner Darrin Hope

Filed Conf. No. : 9012

: VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT Title

USING A SWAPPABLE MEDIA PLAYER

#### MAIL STOP AMENDMENT

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

#### INFORMATION DISCLOSURE STATEMENT

Please consider the references listed on the enclosed PTO 1449 Disclosure Form. Copies of the listed foreign patent documents are enclosed.

A copy of a communication from a foreign patent office in a related foreign application is also enclosed (listed as item 4) and indicates the relevance of the other listed foreign-language references.

This statement is being filed after a first action on the merits, but before receipt of a final action or a notice of allowance. A late submission fee in the amount of \$90, specified by 37 CFR §1.17(p), is being paid with this statement. Apply any necessary charges or credits to deposit account 06-1050, referencing the above attorney docket number.

Please contact the undersigned if there are any questions regarding this Statement. Respectfully submitted,

Date: July 28, 2016	/Samuel Borodach/
	Samuel Borodach

Samuel Borodach Reg. No. 38,388

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Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546	
Information Disclos by Applic		Applicant David Strober		
(Use several sheets i	if necessary)	Filing Date June 25, 2012	Group Art Unit 2173	

U.S. Patent Documents								
Examiner	Desig.	Document	Publication				Filing Date	
Initial	₽	Number	Date	Patentee	Class	Subclass	If Appropriate	

	Foreign Patent Documents or Published Foreign Patent Applications								
				Country			Translation		
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Examiner	Desig.	Document	Publication	Patent					
Initial	ID	Number	Date	Office	Class	Subclass	Yes	No	
	1.	2006-525771 A		JР			See English counterpart in Desig. ID No. 2		
	2.	2004100500A2		WO					
	3.	2004-356695 A		ЛР			English Abstract		

	Other Documents (include Author, Title, Date, and Place of Publication)						
Examiner	Desig.						
Initial	ID	Document					
	4.	Japanese Patent Office, Examination Report for JP Patent App. No. 2014-506460, dated June 28, 2016 (6 pages) (and English Translation)					

Examiner Signature /DARRIN He	IOPE/	Date Considered /D.H/	(04/28/2017)
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**BIB DATA SHEET** 

## **CONFIRMATION NO. 9012**

SERIAL NUM	BER	FILING or			CLASS	GRO	OUP ART	UNIT	ATTC	RNEY DOCKET
13/532,54	6	06/25/2			715		2173	2173 3		160-0005001
		RULI	E							
APPLICANT	S									
INVENTORS David Strober, Rye, NY;										
** <b>CONTINUING DATA</b> ***********************************										
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** <b>IF REQUIRE</b> 07/06/201		REIGN FILING	LICENS	E GRA	ANTED ** ** SMA	LL E	NTITY **			
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BIB (Rev. 05/07).

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	13532546	STROBER, DAVID
	Examiner	Art Unit

СРС								
Symbol			Type Ver:					
G06F	17	/ 30846	F	2013-01-01				
G06F	9	/ 4445	1	2013-01-01				
G06F	17	/ 30864	I	2013-01-01				
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CPC Combination Sets							
Symbol	Туре	Set	Ranking	Version			

/DARRIN HOPE/ Examiner.Art Unit 2173	04/28/2017	Total Clain	ns Allowed:	
(Assistant Examiner)	(Date)	20		
/TADEESE HAILU/ Primary Examiner.Art Unit 2173	05/01/2017	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No. 20170428

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	13532546	STROBER, DAVID
	Examiner	Art Unit
	DARRIN HOPE	2173

US ORIGINAL CLASSIFICATION				US ORIGINAL CLASSIFICATION INTERNATIONAL CLASSIFICATION						ATION			
	CLASS		,	SUBCLASS		CLAIMED NON-CLAIME			ON-CLAIMED				
715			716			G	0	6	F	3 / 01 (2006.01.01)			
	CR	OSS REFI	ERENCE(	S)									
CLASS	SUB	CLASS (ON	SUBCLAS	S PER BLO	CK)								

/DARRIN HOPE/ Examiner.Art Unit 2173	04/28/2017	Total Claims Allowed:		
(Assistant Examiner)	(Date)	20		
/TADEESE HAILU/ Primary Examiner.Art Unit 2173	05/01/2017	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	1	

U.S. Patent and Trademark Office Part of Paper No. 20170428

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	13532546	STROBER, DAVID
	Examiner	Art Unit
	LAdillilei	Artonic

	☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47														
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17	20	33										
5	2		18												
	3		19												
6	4		20												
9	5		21												
10	6		22												
11	7		23												
12	8		24												
	9		25												
7	10	14	26												
8	11	15	27												
13	12	4	28												
1	13	16	29												
	14	17	30												
2	15	18	31												
3	16	19	32												

/DARRIN HOPE/ Examiner.Art Unit 2173	04/28/2017	Total Claims Allowed:	
(Assistant Examiner)	(Date)		
/TADEESE HAILU/ Primary Examiner.Art Unit 2173	05/01/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No. 20170428

# Search Notes



Application/Control No.	Applicant(s)/Patent Under Reexamination
13532546	STROBER, DAVID
Examiner	Art Unit
DARRIN HOPE	2173

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/01	11/3/2014	DH

CPC COMBINATION SETS - SEARCHED							
Symbol	Date	Examiner					

	US CLASSIFICATION SEARCHE	ED .	
Class	Subclass	Date	Examiner
715/716		11/3/2014	DH

SEARCH NOTES						
Search Notes	Date	Examiner				
EAST	7/25/2015	DH				
EAST	7/8/2016	DH				
EAST	4/28/2017	DH				

INTERFERENCE SEARCH									
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner						
715	716	4/28/2017	DH						

**To:** PATDOCTC@fr.com,,

From: PAIR_eOfficeAction@uspto.gov Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 26211

May 08, 2017 03:42:07 AM

Dear PAIR Customer:

FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022 UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 26211, have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
13532546	NOA	05/08/2017	30160-0005001
	892	05/08/2017	30160-0005001
	1449	05/08/2017	30160-0005001

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

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Thank you for prompt attention to this notice,

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## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby r 37 CFR 3	evoke all previous powers of attorney ( .73(b).	given in the appl	ication identified in th	ne attached state	ment under		
I hereby a		***************************************					
<b>✓</b> Pract	itioners associated with the Customer Number:		149550				
CT OR							
Pract	itioner(s) named below (if more than ten patent p	oractitioners are to b	e named, then a customer	r number must be us	ed):		
20000000	Name	Registration Number	Name		Registration Number		
00000000			aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	000000000000000000000000000000000000000			
		***************************************		***************************************			
00000000		000000000000000000000000000000000000000	200000000000000000000000000000000000000	8000800080008000800080008000800	000000000000000000000000000000000000000		
any and all	<ul> <li>or agent(s) to represent the undersigned before patent applications assigned only to the undersigned that in accordance with 37 CFR 3.73(b).</li> </ul>						
Please cha	nge the correspondence address for the applicat	ion identified in the	attached statement under 3	37 CFR 3.73(b) to:			
$\overline{Q}$ TI							
Firm							
Address	ridual Name	naannaannaannaannaannaannaannaannaanna					
City		State		Zip			
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			Email				
Telephone	·		Elilan				
Assignee N	ame and Address:		***************************************	***************************************			
Touchstre	eam Technologies, Inc.						
i	on Avenue						
Mew TOIR	x, NY 10016						
filed in ea the practi	this form, together with a statement und ch application in which this form is used tioners appointed in this form if the app	d. The statement ointed practition	t under 37 CFR 3.73(b) or is authorized to act	) may be complet	ed by one of		
anu must	identify the application in which this Po	Wer of Attorney i TURE of Assignee		***************************************			
	The individual whose signature and title			alf of the assignee			
Signature	LAATA	- A	Date	e ₇₋₇₋₂₀₁₇			
Name	Perb	Mitschele	Tele	ephone 310-3	83-3383		
Title	CEO,	Touchstream T	echnologies, Inc.	***************************************			

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.

PTO/SB/96 (07-08)
Approved for use through 07/31/2012. OMB 0851-0031
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STATEMENT UNDE	R 37 CFR 3.73(b)
Applicant/Patent Owner: TOUCHSTREAM TECHNOLOGIES, IN	ic.
	Filed/Issue Date: 06/25/2012
Titled: VIRTUALIZED HOSTING AND DISPLAYING OF COM	ITENT USING A SWAPPABLE MEDIA PLAYER
TOUCHSTREAM TECHNOLOGIES, INC. , a CORPO	DRATION
	Assignee, e.g., corporation, partnership, university, government agency, etc.
states that it is:	
1. X the assignee of the entire right, title, and interest in;	
2. an assignee of less than the entire right, title, and interest (The extent (by percentage) of its ownership interest is	
3. the assignee of an undivided interest in the entirety of (a co	omplete 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 the United States Patent and Trademark Office at Reel of copy therefore is attached.  OR	on/patent identified above. The assignment was recorded in 29121 , Frame 0324 , or for which a
B. A chain of title from the inventor(s), of the patent application	n/patent identified above, to the current assignee as follows:
1. From:	То:
The document was recorded in the United State	s 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 State	
Reel, Frame	or for which a copy thereof is attached.
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Additional documents in the chain of title are listed on a s	upplemental sheet(s).
As required by 27 CED 2.79(b)(1)(i) the decumentary evidence	on of the chair of title from the original owner to the conjugacy was
As required by 37 CFR 3.73(b)(1)(i), the documentary evidence or concurrently is being, submitted for recordation pursuant to 3	se of the chain of title from the original owner to the assignee was, 37 CFR 3.11.
[NOTE: A separate copy (i.e., a true copy of the original assig accordance with 37 CFR Part 3, to record the assignment in the	nment document(s)) must be submitted to Assignment Division in e records of the USPTO. <u>See</u> MPEP 302.08
The undersigned (whose ditle is supplied below) is authorized to act or	n behalf of the assignee.
Holding	7/17/17
Signature	Date
Herb Mitschele	<u>CEO</u>
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.

Electronic Ack	Electronic Acknowledgement Receipt				
EFS ID:	29817068				
Application Number:	13532546				
International Application Number:					
Confirmation Number:	9012				
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER				
First Named Inventor/Applicant Name:	David Strober				
Customer Number:	26211				
Filer:	Keith Joshua Bae/Traci Burke				
Filer Authorized By:	Keith Joshua Bae				
Attorney Docket Number:	30160-0005001				
Receipt Date:	18-JUL-2017				
Filing Date:	25-JUN-2012				
Time Stamp:	15:49:51				
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.)
				122307		
1	Power of Attorney	TS	TH_277746_Executed_POA. pdf	745b1febd5eee081afc0e368be981565588 88790	no	1
Warnings:		•			•	

Information:					
			100580		
2	Assignee showing of ownership per 37 CFR 3.73	TSTH_277746_Executed_State ment_373b.pdf	3ad40214a3a3a3b3c79b545f37e2750b0a8 29f3e	no	1
Warnings:					
Information:					
		Total Files Size (in bytes)	2.	22887	

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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

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New International Application Filed with the USPTO as a Receiving Office

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## United States Patent and Trademark Office

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

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

13/532,546

06/25/2012

David Strober

30160-0005001 **CONFIRMATION NO. 9012** 

**POA ACCEPTANCE LETTER** 

149550 SHOOK, HARDY & BACON LLP (Touchstream Technologies, Inc.) 2555 GRAND BLVD KANSAS CITY, MO 64108-2613



Date Mailed: 07/20/2017

### NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/18/2017.

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.

/hteffera/		



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APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

13/532,546

06/25/2012

David Strober

30160-0005001 **CONFIRMATION NO. 9012** 

**POWER OF ATTORNEY NOTICE** 

26211 FISH & RICHARDSON P.C. (NY) P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022



Date Mailed: 07/20/2017

#### NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/18/2017.

• 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.

/hteffera/		

To: IPDOCKET@SHB.COM,IPRCDKT@SHB.COM,tquick@shb.com

From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 149550

Jul 20, 2017 04:17:52 AM

Dear PAIR Customer:

SHOOK, HARDY & BACON LLP (Touchstream Technologies, Inc.) 2555 GRAND BLVD KANSAS CITY, MO 64108-2613 UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 149550, have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

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Application	Document	Mailroom Date	Attorney Docket No.
13532546	N570	07/20/2017	30160-0005001
	N570	07/20/2017	30160-0005001

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UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Doc Code: IFEE PTOL/85B-EFS

Document Description: Issue Fee Payment (PTO-85B)

## **Issue Fee Transmittal Form**

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
13532546	25-Jun-2012	David Strober	TSTH.277746/30130-00050	9012

#### TITLE OF INVENTION:

#### VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER

Entity Status			Application Type		Art Unit Class - Subclas		s EXAMINER
Small		Utility	/ under 35 USC 111(a)	217	3	716000	DARRIN HOPE
Issue Fee Due	Publication Du	e	Total Fee(s) Due		Da	ite Due	Prev. Paid Fee
\$480	\$0		\$480		08-Aug-20	)17	\$0

## 1. Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address:
149550 SHOOK, HARDY & BACON LLP (Touchstream Technologies, Inc.) 2555 GRAND BLVD	
KANSAS CITY MO 64108-2613 UNITED STATES 816-474-6550  IPDOCKET@SHB.COM	
Change of correspondence address requested, system generated AIA/122-EFS form attached	Fee Address indication requested, system generated SB/47-EFS form attached

## 2.Entity Status

#### **Change in Entity Status**

Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.

- Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

  If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.
- Applicant asserting small entity status. See 37 CFR 1.27.
  - Note: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- Applicant changing to regular undiscounted fee status.
- Note: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

Doc Code: IFEE PTOL/85B-EFS

Document	Description:	Iccus Ess	Daymont	DTO OFF	١
Document	Description:	issue ree	rayment	(10-030	,

3.The Following Fee(s) Are Sul	bmitted:					
				orize USPTO to app t fees due	ply my previously	paid issue fee to the
Publication Fee			issue fe		ee due and to cha	y my previously paid arge deficient fees to 
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4.Firm and/or Attorney Names	s To Be Printed					
NOTE: If no name is listed, no name w For printing on the patent front page, lis	ill be printed					
1. Shook, Hardy & Bacon L.L.P.						
2.						
3.						
5.Assignee Name(s) and Resid	ence Data To Be Printed					
PLEASE NOTE: Unless an assignee is ider	ntified below, no assignee data will appear of Completion of this form is NOT a substitute i				ed below, the docume	ent has been filed for
Na	me	(	ity	State	Country	Category
TOUCHSTREAM TECHNOLOGIES	5, INC.	Nev	v York	NEW YORK	united states	corporation
6.Signature						
	l)(4) that I am an attorney or agent registere Iso certify that this Fee(s) Transmittal form i					-
Signature	/KEITH J. BAE/		Date		08-08-2017	
Name	Keith J. Bae		Regis	stration Number	64633	

Electronic Patent A	Electronic Patent Application Fee Transmittal						
Application Number:	135	32546					
Filing Date:	25-J	Jun-2012					
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER  David Strober						
First Named Inventor/Applicant Name:	David Strober						
Filer:	Keit	Keith Joshua Bae/Traci Burke					
Attorney Docket Number:	TST	H.277746/30130-0	005001				
Filed as Small Entity							
Filing Fees for Utility under 35 USC 111(a)							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
UTILITY APPL ISSUE FEE		2501	1	480	480		
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL		1504	1	0	0		
Pages:							
Claims:							
Miscellaneous-Filing:							
Petition:							
Patent-Appeals-and-Interference:							

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	480

Electronic Ack	Electronic Acknowledgement Receipt					
EFS ID:	30011928					
Application Number:	13532546					
International Application Number:						
Confirmation Number:	9012					
Title of Invention:	VIRTUALIZED HOSTING AND DISPLAYING OF CONTENT USING A SWAPPABLE MEDIA PLAYER					
First Named Inventor/Applicant Name:	David Strober					
Customer Number:	149550					
Filer:	Keith Joshua Bae/Traci Burke					
Filer Authorized By:	Keith Joshua Bae					
Attorney Docket Number:	TSTH.277746/30130-0005001					
Receipt Date:	08-AUG-2017					
Filing Date:	25-JUN-2012					
Time Stamp:	15:31:26					
Application Type:	Utility under 35 USC 111(a)					

## **Payment information:**

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$480
RAM confirmation Number	080917INTEFSW15312501
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
1	Issue Fee Payment (PTO-85B)	Web85b.pdf	46359 415d2ca22ea23fa0d1485a5318a4ce1b055 6ca37	no	2
Warnings:	<u> </u>		'		
Information:					
			32417		
2	Fee Worksheet (SB06)	fee-info.pdf	2133cf8ca5b77b2d3948f5c2563f81cad712 5495	no	2
Warnings:	<u> </u>				
Information:					
		Total Files Size (in bytes)	7	8776	

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

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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Sheet	- 1	ΟŤ	

Substitute Disclosure Form	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 30160-0005001	Application No. 13/532,546	
Information Disclosure Statement by Applicant (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant David Strober		
		Filing Date June 25, 2012	Group Art Unit 2173	

	U.S. Patent Documents								
Examiner	Desig.	Document	Publication				Filing Date		
Initial	ID	Number	Date	Patentee	Class	Subclass	If Appropriate		

	Foreign Patent Documents or Published Foreign Patent Applications										
		_			Country			Translation			
					or						
	Examiner	Desig.	Document	Publication	Patent						
	Initial	≙	Number	Date	Office	Class	Subclass	Yes	No		
	(s) applied	1.	2006-525771 A	11/2006	JР			See English counterpart in			
to docu	,							Desig. ID No. 2			
/S.J.W 5/11/2		2.	2004100500A2	11/2004	wo						
., ,	,	3.	2004-356695 A	12/2004	JР			English Abstract			

Other Documents (include Author, Title, Date, and Place of Publication)							
Examiner	Desig.						
Initial	ID	Document					
	4.	Japanese Patent Office, Examination Report for JP Patent App. No. 2014-506460, dated June 28, 2016 (6 pages) (and English Translation)					

Examiner Signature /DARRIN HOPE/	Date Considered /D.H/ (04/28/2017)
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/532.546	09/19/2017	9767195	TSTH.277746/30130-0005001	9012

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## **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 602 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).

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

David Strober, Rye, NY;

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IR103 (Rev. 10/09)

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Application Document Mailroom Date Attorney Docket No.

13532546 ISSUE.NTF 08/30/2017 TSTH.277746/30130-0005001

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