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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	11/06/2012	8307286	50670-00002	9408

25231 7590 10/17/2012

MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237

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 1214 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

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

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application is a nonprovisional claiming the benefits of U.S. Prov. App. No. 60/746,645, entitled "SYSTEM FOR ON-LINE VIDEO-BASED PROPERTY SALES AND MARKETING," filed May 7, 2006 by Christian A. Sterner et al. This application is also related to U.S. App. No. 11/744,764, entitled "METHODS AND SYSTEMS FOR HANDLING MONTAGE VIDEO DATA" (Attorney Docket No. 026819-000120US), filed on the same date as the current application by Christian A. Sterner et al. The entire disclosures of both related applications are herein incorporated by reference for all purposes.

Change(s) applied to document, /L.A.S./ 8/14/2012

BACKGROUND OF THE INVENTION

[0002] This invention relates generally to online video; and more particularly to methods and systems for handling online video for property commerce over the Internet.

[0003] The past decades have seen the tremendous growth of Internet traffic, and with it, the birth of a new world of global electronic commerce (e-commerce). E-commerce allows sellers to share their wares with consumers around the world in virtual marketplaces. Through these virtual marketplaces, sellers can open virtual storefronts with little to no capital, quickly and inexpensively distribute information about products and services to a global customer base, and collect payment through electronic fund transfers.

[0004] In exchange for these benefits, however, e-commerce drastically changes the relationships between buyers and sellers. One primary manifestation of this change is the difficulty with current technology to give consumers a feel for goods and services before they buy. In a virtual marketplace, a consumer has limited ability to experience a product—to try on clothing, to smell a chef's creation, or to walk through a neighborhood.

[0005] Still, as consumer high-speed data capability becomes increasingly ubiquitous, sellers are finding ways to combat those difficulties. The vast majority of e-commerce websites, for example, now use photos along with product descriptions to provide more information to consumers. Some progressive online retailers have even begun to use video,

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
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or Fax (571)-273-2885

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

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

25231 7590 07/05/2012
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Denver, CO 80237

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	50670-00002	9408

TITLE OF INVENTION: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$870	$300	$0	$1170	10/05/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEGGETT, ANDREA C.	2171	715-723000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

Marsh Fischmann & Breyfogle LLP
1 Daniel J. Sherwinter
2
3

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

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

(A) NAME OF ASSIGNEE
WELLCOMEMAT LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
1525 QUINCE AVENUE
BOULDER, COLORADO 80304

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

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☒ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 501419 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Daniel J. Sherwinter Date October 1, 2012

Typed or printed name Daniel J. Sherwinter Registration No. 61,751

This collection of information 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.

Electronic Patent Application Fee Transmittal

Application Number:	11744721
Filing Date:	04-May-2007
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Filer:	Daniel Jonah Sherwinter/Kalyn Black
Attorney Docket Number:	50670-00002

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:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	870	870
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1170**

Electronic Acknowledgement Receipt

EFS ID:	13882955
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	25231
Filer:	Daniel Jonah Sherwinter/Kalyn Black
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	50670-00002
Receipt Date:	01-OCT-2012
Filing Date:	04-MAY-2007
Time Stamp:	16:47:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Electronic Funds Transfer
Payment was successfully received in RAM	$1170
RAM confirmation Number	4149
Deposit Account	
Authorized User	

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)	Issue_Fee_Payment.pdf	124921 5c033510b6abcff26e30f16635e43b82457b3601	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	31964 37bc2f3a2e46ce41a73d175d61746b7e3ae6d6fb	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	156885		

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.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

25231 7590 07/05/2012

MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 07/05/2012

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	50670-00002	9408

TITLE OF INVENTION: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$870	$300	$0	$1170	10/05/2012

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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**
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Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	50670-00002	9408

TITLE OF INVENTION: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$870	$300	$0	$1170	10/05/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEGGETT, ANDREA C.	2171	715-723000

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

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

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

2. For printing on the patent front page, list

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

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

1 _____

2 _____

3 _____

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

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

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

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

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

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❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	50670-00002	9408

25231 7590 07/05/2012

MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 07/05/2012

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

The Patent Term Adjustment to date is 992 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 992 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2171	

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *6-7-12 and 6-29-12*.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-5, 7-19, 22, and 41-49 renumbered as 1-28*.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/A. L./
Examiner, Art Unit 2171

EXAMINER'S AMENDMENT

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

Authorization for this examiner's amendment was given in a telephone interview with *Daniel J. Sherwinter* on *June 29, 2012*.

The application has been amended as follows:

Replace claims 1 and 41 with the following:

1. (Currently Amended) A system for handling video cue points, the system comprising:

a video server configured to serve a set of video information from a plurality of video files;

a cue point server configured to serve a set of cue point information corresponding to cue points, each cue point associated with at least one video file and indicating a location within the video information from the associated at least one video file; and

an application server, in operative communication with the video server and the cue point server, disposed on a server side of a public network, in communication with a client terminal disposed on a client side of the public network, and **comprising a processor** configured to run a video editing

environment configured to:

receive a cue point editing command over the public network from the client terminal;

modify a portion of the cue point information at the cue point at the cue point server in response to and according to the cue point editing command received over the public network from the client terminal;

receive a cue point selection over the public network from the client terminal identifying one of the cue points corresponding to a portion of the video information of one of the video files; and

stream the portion of the video information to the client terminal over the public network in response to receiving the cue point selection and without storing the video file in its entirety to the client terminal.

41. (Currently Amended) A system for handling video cue points, the system comprising:

an application server accessible by a plurality of remote client terminals over a public network **comprising at least one processor** and configured to run, over the public network:

a client authentication module configured to authenticate remote client terminals as editor terminals; and

a video editing module configured to:

receive a cue point selection over the network from one of the remote client terminals identifying one of the video cue points corresponding to a portion of video information of a video file;

stream the portion of the video information to the remote client terminal over the public network in response to receiving the cue point selection; and

provide edit interactivity with cue point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal by:

receiving a cue point editing command over the public network from one of the remote client terminals; and

modifying a portion of the cue point information at the video editing module in response to and according to the cue point editing command received over the public network from the client terminal,

the cue point information corresponding to a cue point indicating a location within at least one video file.

Claims 1-5, 7-19, 22, and 41-49 renumbered as 1-28 are allowed.

Reasons for allowance

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

Examiner has carefully considered independent claims 1, 13, and 31.

The prior art of record does not teach or fairly suggest the limitations "receive a cue point selection over the public network from the client terminal identifying one of the cue points corresponding to a portion of the video information of one of the video files; and stream the portion of the video information to the client terminal over the public network in response to receiving the cue point selection and without storing the video file in its entirety to the client terminal."

These limitations, in specific combinations as recited in independent claims 1, 13, and 31, define the patentability of the claims over the prior art of record.

Claims 2-5, 7-12, 14-19, 22, and 42-49 depend on allowed independent claims, therefore claims 2-5, 7-12, 14-19, 22, and 42-49 are also allowed for similar reason.

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."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is

(571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/A. L./
Examiner, Art Unit 2171
June 29, 2012

/Ryan F Pitaro/
Primary Examiner, Art Unit 2171

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010	04/21/2012	06/29/2012					
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4	4	✓	✓	✓	=					
5	5	✓	✓	✓	=					
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32	32	✓	-	-	-					
33	33	✓	-	-	-					
34	34	✓	-	-	-					
35	35	✓	-	-	-					
36	36	✓	-	-	-					

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010	04/21/2012	06/29/2012					
37	37	✓	-	-	-					
38	38	✓	-	-	-					
39	39	✓	-	-	-					
40	40	✓	-	-	-					
41	41		✓	✓	=					
42	42		✓	✓	=					
43	43		✓	✓	=					
44	44		✓	✓	=					
45	45		✓	✓	=					
46	46		✓	✓	=					
47	47		✓	✓	=					
48	48		✓	✓	=					
49	49			✓	=					

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

SEARCHED			
Class	Subclass	Date	Examiner
715	716	3/17/2010	A.L.
715	723	3/17/2010	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search	3/17/2010	A.L.
PLUS Search (see in eDan)	3/17/2010	A.L.
Inventor Name Search (EAST)	3/17/2010	A.L.
EAST Search	9/25/2010	A.L.
EAST Search	4/21/2012	A.L.
EAST Search	6/29/2012	A.L.

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
715	716	6/29/2012	A.L.
715	723	6/29/2012	A.L.
	PGPUB-PA text search - see Interference search printout	6/29/2012	A.L.

/ANDREA LEGGETT/ Examiner.Art Unit 2173	

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BIB DATA SHEET

CONFIRMATION NO. 9408

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/744,721	05/04/2007	715	2171	50670-00002

APPLICANTS

Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

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

This appln claims benefit of 60/746,645 05/07/2006

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

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ANDREA C. LEGGETT/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CO	28	28 ~~40~~	3 ~~4~~

ADDRESS

MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237
UNITED STATES

TITLE

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

FILING FEE RECEIVED		
1090	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
11744721	STERNER ET AL.
Examiner	**Art Unit**
ANDREA LEGGETT	2171

ORIGINAL		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
715	723	G 0 6 F 3 / 00 (2006.01)	

CROSS REFERENCE(S)

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
715	716				

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	16	17		33	12	49								
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3	3	19	19		35										
4	4		20		36										
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	6	20	22		38										
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8	9		25	21	41										
9	10		26	22	42										
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11	12		28	24	44										
13	13		29	25	45										
14	14		30	26	46										
17	15		31	27	47										
15	16		32	28	48										

/ANDREA LEGGETT/ Examiner.Art Unit 2171	06/29/2012	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	28	
/RYAN PITARO/ Primary Examiner.Art Unit 2171	07/01/2012	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"US 20070294622"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2012/06/29 09:48
L4	117	cue point with video	US-PGPUB; USPAT	ADJ	ON	2012/06/29 10:53
S1	2	((CHRISTIAN) near2 (STERNER)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:54
S2	2	((HAIDER) near2 (ZAINY)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S3	1	((PHILIP) near2 (DIGIULIO)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S4	2	wellcomemat.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:56
S5	3	(("20070250899") or ("20040039934") or ("20050152665")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:09
S6	4	(("20070250899") or ("20040039934") or ("20050152665") or ("20030191691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:35
S7	1234	"715/716".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:10
S8	905	"715/723".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:21
S9	39	video edit$9 module	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/25 16:50
S10	6	(US-20070250899-$ or US-20050152665-$ or US-20040039934-$ or US-20030191691-$ or US-20080247726-$ or US-20080092193-$).did.	US-PGPUB	ADJ	OFF	2012/04/21 13:07
S11	0	S10 AND REMOTE (edit or editing or edition)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2012/04/21 13:07
S12	2	"US 20110119637"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2012/06/28 19:25

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	886	"715/716".CCLS.	USPAT; UPAD	ADJ	ON	2012/06/29 10:41
L3	730	"715/723".CCLS.	USPAT; UPAD	ADJ	ON	2012/06/29 10:52
L5	0	(receiv$9 cue point selection with network with video)".clm"	USPAT; UPAD	ADJ	ON	2012/06/29 11:02
L6	0	(receiv$9 cue point selection with video)".clm"	USPAT; UPAD	ADJ	ON	2012/06/29 11:03
L7	0	(cue point selection with video)".clm"	USPAT; UPAD	ADJ	ON	2012/06/29 11:03
L8	0	(cue point with video)".clm"	USPAT; UPAD	ADJ	ON	2012/06/29 11:03

6/29/2012 11:03:55 AM
C:\Users\aleggett\Documents\EAST\Workspaces\11-744721.wsp

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: STERNER et al. Serial No.: 11/744,721 Confirmation No.: 9408 Filed: 05-04-2007 Atty. File No.: 50670-00002 For: "METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE"	)	Group Art Unit: 2171 Examiner: LEGGETT, ANDREA C. **AMENDMENT**

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

Dear Examiner:

Applicants submit this Amendment to address the Office Action having a mailing date of April 26, 2012 ("Office Action").

Please credit any overpayment or charge any underpayment to Deposit Account No. 50-1419.

Amendments to the Claims are reflected in the listing of claims beginning on page 2 of this communication.

Remarks/Arguments begin on page 9 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1. (CURRENTLY AMENDED) A system for handling video cue points, the system comprising:

a video server configured to serve a set of video information from a plurality of video files;

a cue point server configured to serve a set of cue point information corresponding to cue points, each cue point associated with at least one video file and indicating a location within the video information from the associated at least one video file; and

an application server, in operative communication with the video server and the cue point server, disposed on a server side of a public network, in communication with a client terminal disposed on a client side of the public network, and configured to run a video editing environment configured to:

receive a cue point editing command over the public network from the client terminal; ~~and~~

modify a portion of the cue point information at the cue point at the cue point server in response to and according to the cue point editing command received over the public network from the client terminal**;**

receive a cue point selection over the public network from the client terminal identifying one of the cue points corresponding to a portion of the video information of one of the video files; and

stream the portion of the video information to the client terminal over the public network in response to receiving the cue point selection and without storing the video file in its entirety to the client terminal.

2. (ORIGINAL) The system of claim 1, further comprising a data store configured to store at least a portion of the set of video information and at least a portion of the set of cue point information.

3. (ORIGINAL) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least a portion of the set of video information.

4. (ORIGINAL) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least another portion of the set of cue point information.

5. (ORIGINAL) The system of claim 1, wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy.

6. CANCELED

7. (PREVOUSLY PRESENTED) The system of claim 1, further comprising an authentication server configured to authenticate clients of the system such that the portion of the cue point information at the cue point server is modified according to the cue point editing command received over the public network from the client terminal only when the client terminal is authenticated by the authentication server.

8. (ORIGINAL) The system of claim 1, further comprising a comment handler configured to perform at least one of receiving, displaying, or associating comment information, wherein the comment information

comprises at least one of textual, audio, or video information, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information.

9. (ORIGINAL) The system of claim 1, further comprising a video authorer configured to communicate with a video creation device.

10. (ORIGINAL) The system of claim 1, wherein the video server is in operative communication with the application server via the network.

11. (PREVOUSLY PRESENTED) The system of claim 1, wherein the cue point server is in operative communication with the application server via the network.

12. (ORIGINAL) The system of claim 1, wherein the network is the Internet.

13. (CURRENTLY AMENDED) A method for handling video cue points, the method comprising:

providing a computer system having at least one computer-readable medium comprising a video editing environment, and being disposed at a server side of a public network;

receiving a set of video information at the video editing environment using the computer system;

receiving a set of cue point information at the video editing environment using the computer system;

receiving a cue point editing command over the network from a remote client terminal disposed at a client side of the public network**[[,]]** using the computer system; ~~**and**~~

modifying a portion of the cue point information at the server side of the public network according to the cue point editing command received over the public network from the client terminal**;**

receiving a cue point selection over the network from the remote client terminal identifying one of the cue points corresponding to a portion of the video information of one of the video files; and

streaming the portion of the video information to the client terminal over the public network in response to receiving the cue point selection.

14. (PREVOUSLY PRESENTED) The method of claim 13, further comprising providing a cue point editing mode as part of the video editing environment configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set

of cue point information according to the cue point editing command received over the public network from the client terminal.

15. (ORIGINAL) The method of claim 13, further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information.

16. (PREVOUSLY PRESENTED) The method of claim 14, further comprising:

receiving an edit mode entry signal over the network from the client terminal representing entry into the cue point edit mode, and

switching the video editing environment to the cue point editing mode in response to receiving the edit mode entry signal.

17. (PREVOUSLY PRESENTED) The method of claim 14, further comprising:

while streaming the video information to the client terminal, receiving an edit mode entry signal over the network from the client terminal representing entry into the cue point edit mode,

determining a time position representing a time location within the video information being streamed at which the edit mode entry signal was received, and

creating a cue point location associated at least in part with the video information and the time position.

18. (PREVOUSLY PRESENTED) The method of claim 13, further comprising receiving, over the network, authentication information relating to access authority of the remote client terminal.

19. (PREVOUSLY PRESENTED) The method of claim 18, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the remote client terminal.

20. – 21. CANCELED

22. (PREVOUSLY PRESENTED) The method of claim 13, wherein the server video data is streamed progressively to a video playback environment at the remote client terminal, allowing the video player to begin displaying streamed server video data while remaining server video data continues to be streamed.

23. – 40. CANCELED

41. (CURRENTLY AMENDED) A system for handling video cue points, the system comprising:

an application server accessible by a plurality of remote client terminals over a public network and configured to run, over the public network:

a client authentication module configured to authenticate remote client terminals as editor terminals; and

a video editing module configured to**:**

receive a cue point selection over the network from one of the remote client terminals identifying one of the video cue points corresponding to a portion of video information of a video file;

stream the portion of the video information to the remote client terminal over the public network in response to receiving the cue point selection; and

provide edit interactivity with cue point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal by:

receiving a cue point editing command over the public network from one of the remote client terminals; and

modifying a portion of the cue point information at the video editing module in response to and according to the cue point editing command received over the public network from the client terminal,

the cue point information corresponding to a cue point indicating a location within at least one video file.

42. (PREVOUSLY PRESENTED) The system of claim 41, wherein the application server is configured further to run, over the public network:

a video playback module configured, without authentication of the remote client terminal by the client authentication module as an editor terminal, to:

direct playback of the video file to a user interface running on the client terminal over the public network, the playback being directed to commence from a first location in the video file without storing the video file in its entirety to the client terminal;

direct display of a plurality of graphical cue point controls to the user interface concurrent with playback of the video file, each cue point control being associated with cue point information and a location within the video file;

receive a selection of one of the plurality of graphical cue point controls over the public network from the client terminal via the user interface during playback of the video file; and

direct playback of the video file to the user interface to commence from the location in the video file associated with the selected one of the plurality of graphical cue point controls without storing the video file in its entirety to the client terminal in response to receiving the selection.

43. (PREVOUSLY PRESENTED) The system of claim 42, wherein the video playback module is further configured to provide access to edit interactivity via the video editing module when the remote client terminal is authenticated by the client authentication module as an editor terminal.

44. (PREVOUSLY PRESENTED) The system of claim 42, wherein the video playback module and the video editing module are both communicatively coupled with a server-side data storage system configured to store the video file and the cue-point information.

45. (PREVOUSLY PRESENTED) The system of claim 41, wherein modifying a portion of the cue-point information affects the corresponding cue point by at least one of: creating the cue point, deleting the cue point, temporally moving the cue point, editing a label associated with the cue point, or editing an association between multiple cue points including the cue point.

46. (PREVOUSLY PRESENTED) The system of claim 41, wherein the application server is configured to run the video editing module over the public network, so as to provide the edit interactivity according to data received over the public network via a standard Internet browser running on the remote client terminal.

47. (PREVOUSLY PRESENTED) The system of claim 41, wherein the application server is configured to run the video editing module over the public network, so as to provide the edit interactivity without a dedicated client-side application running on the remote client terminal.

48. (PREVOUSLY PRESENTED) The system of claim 41, wherein the application server is configured to run the video editing module over the public network, so as to provide the edit interactivity without storing the server-side video information to the remote client terminal.

49. (PREVOUSLY PRESENTED) The system of claim 1, wherein modifying the portion of the cue point information at the cue point server in response to and according to the cue point editing command received over the public network from the client terminal comprises re-associating the corresponding cue point with a different location within the video information.

REMARKS

Interview Summary

The undersigned thanks Examiner Leggett for the courtesy of a telephone conversation on June 6, 2012.

Examiner Leggett identified in the Office Action and confirmed during our telephone conversation that claim 6 recites allowable subject matter and that incorporation of that subject matter into independent claims 1, 13, and 41 would place those claims and any claims depending therefrom in condition for allowance. The claims are amended accordingly.

Status of Claims

At the time of the Office Action, claims 1 – 19, 22, 24 – 28, 30, 31 and 41 – 49 were pending. In this response, claims 1, 13, and 41 are amended; claims 6, 24 – 28, 30, and 31 are canceled; and no new claims are added.

Allowable Subject Matter and Claim Amendments

Applicants thank Examiner Leggett for identifying allowable subject matter in claims 6 and 7. As discussed above, Examiner Leggett further confirmed in our telephone conversation that incorporating the subject matter of claim 6 into independent claims 1, 13, and 41 would overcome the cited art and any other art known by Examiner Leggett.

Independent claims 1, 13, and 41 are amended to incorporate the allowable subject matter of claim 6, and claim 6 is canceled.

For the sake of furthering prosecution, independent claim 24 and the claims depending therefrom are also canceled. Applicants reserve the right to pursue subject matter of these claims and/or any other unclaimed subject matter in future applications.

In light of the amendments herein, Applicants respectfully request withdrawal of any rejections to the claims and issuance of a Notice of Allowance at Examiner's earliest convenience.

CONCLUSION

Based upon the foregoing, Applicants believe that all pending claims are in condition for allowance and such disposition is respectfully requested. In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

Respectfully submitted,

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Date: June 7, 2012

Electronic Acknowledgement Receipt

EFS ID:	12963799
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	25231
Filer:	Daniel Jonah Sherwinter/Kalyn Black
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	50670-00002
Receipt Date:	07-JUN-2012
Filing Date:	04-MAY-2007
Time Stamp:	18:30:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amendment_As_Filed.pdf	122937 41e6ef2ddfed4eed53180481dc95cc3ea865517d	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Amendment Copy Claims/Response to Suggested Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	10
Warnings:			
Information:			
	Total Files Size (in bytes):	122937	

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 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/744,721	05/04/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	06/07/2012	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 28	Minus	** 40	= 0	X $30 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0	X $125 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/YOLANDA CHADWICK/

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	50670-00002	9408

25231 7590 04/26/2012

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EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
04/26/2012	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):

PTOMail@mfblaw.com

Office Action Summary	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2171	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *13 December 2010*.

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-19,22,24-28,30,31 and 41-49* is/are pending in the application.

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

6)☒ Claim(s) *6 and 7* is/are allowed.

7)☒ Claim(s) *1-5,8-19,22,24-28,30,31 and 41-49* is/are rejected.

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

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

11)☒ The drawing(s) filed on *04 May 2007* 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).

12)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

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

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

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

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

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

This Office action is responsive to the Request for Continued Examination (RCE) filed under 37 CFR §1.53(d) for the instant application on December 13, 2010. Applicants have properly set forth the RCE, which has been entered into the application, and an examination on the merits follows herewith.

Claims 1, 6-7, 11, 13-14, 16-17, 24, 28, 31, 41-42, and 44-48 are amended; claims 20-21, 23, 29, and 32-40 are canceled; claim 49 is newly added; and claims 1-19, 22, 24-28, 30-31, and 41-49 are pending and have been considered below.

Claim Objections

The objections of claims 9 and 42 have been withdrawn pursuant to applicant amendment.

Claim Rejections - 35 USC § 103

The following is a quotation of 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.

Claims **1-2, 5, 8-17, 22, 24, 28, 30-31, and 49 are** rejected under 35 U.S.C. 103(a) as being unpatentable over **Shibata et al. (U.S. 2005/0152665)** in view of **Land et al. (U.S. 2004/0039934).**

With regard to claim 1, Shibata teaches a system for handling video cue points **([0008] video content edition support system; [0248] edition point/cue point)**, the system comprising:

a video server **([0008]; [0248])** configured to serve a set of video information from a plurality of video files **(Fig. 18, 1710 scenes)**;

a cue point server **([0193]; [0247] – [0248])** configured to serve a set of cue point information corresponding to cue points, each cue point associated with at least one video file and indicating a location within the video information from the associated at least one video file **([0247] – [0248] cue points associated with video scenes specified in video content data)**; and

an application server **([0070])**, in operative communication with the video server and the cue point server **([0193]; [0247] – [0248])**, and configured to run a video editing environment **([0248] edition point/cue point)** configured to:

receive a cue point editing command over the network from the client terminal **([0077] - [0078])**; and

modify a portion of the cue point information at the cue point server **([0010]; [0024] generate edition information data for edited video content data for on-line editing)** in response to and according to the cue point editing

command received over the network from the client terminal **([0010]; [0024])**.

However, Shibata does not specifically teach:

- *disposed on a server side of a public network, in communication with a client terminal disposed on a client side of the public network*
- *commands received over the public network*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches an application server disposed on a server side of a public network **([0370] the server communicates over a public or private computer network)**, in communication with a client terminal disposed on a client side of the public network for receiving commands **([abstract] a playback system for creating, editing and distributing multimedia content)** received over the public network **([0370]).** Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 2, the limitations are addressed above and Shibata teaches a data store configured to store **([0095])** at least a portion of the set of video information **([0008])** and at least a portion of the set of cue point information

([0247] – [0248]).

With regard to claim 5, the limitations are addressed above and Shibata teaches wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy **([0004]; [0088]; [0247] – [0248])**.

With regard to claim 8, the limitations are addressed above and Shibata teaches further comprising a comment handler **([0020])** configured to perform at least one of receiving, displaying, or associating comment information **([0020])**, wherein the comment information

comprises at least one of textual, audio, or video information **([0008]; [0020])**, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information **([0008]; [0020]; [0247] – [0248])**.

With regard to claim 9, the limitations are addressed above and Shibata teaches further comprising a video authorer **([0008] – [0009])** configured to communicate with a video creation device **([0003]; [0008])**.

With regard to claim 10, the limitations are addressed above and Shibata teaches wherein the video server is in operative communication with the application server via the network **([0070]; [0112])**.

With regard to claim 11, the limitations are addressed above and Shibata teaches wherein the cue point server is in operative communication with the application server via the network **([0008]; [0070]; [0112]; [0248])**.

With regard to claim 12, the limitations are addressed above and Shibata teaches wherein the network is the Internet **([0078]; [0108])**.

With regard to claim 13, Shibata teaches a method for handling video cue points **([0008] video content edition support system; [0248] edition point/cue point)**, the method comprising:

providing a computer system having at least one computer-readable medium comprising a video editing environment **([abstract]; [0008] – [0010]; [0072])**; and

receiving a set of video information at the video editing environment using the computer system **(Fig. 18, 1710 scenes; [0008]; [0070])**;

receiving a set of cue point information at the video editing environment using the computer system **([0247] – [0249])**;

receiving a cue point editing command over the network **([0247] – [0248])** from a remote client terminal **([0112])**, using the computer system **([0112])**; and

modifying a portion of the cue point information at the server-side of the network according to the cue point editing command received over the network from the client terminal **([0010]; [0024] generate edition information data for edited video content data for on-line editing; [0077] - [0078])**. However, Shibata does not specifically teach:

- *disposed at a client side of the public network*
- *command received over the public network*
- *disposed on a server side of a public network*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches an application server disposed on a server side of a public network **([0370] the server communicates over a public or private computer network)**, in communication with a client terminal disposed on a client side of the public network for receiving commands **([abstract] a playback system for creating, editing and distributing multimedia content)** received over the public network **([0370]).** Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video

authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 14, the limitations are addressed above and Shibata teaches further comprising providing a cue point editing mode as part of the video editing environment **([0009] – [0010]; [0247] – [0248])** configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information according to the cue point editing command received over the network from the client terminal **([0009] – [0010]; [0022]; [0024]; [0247] – [0248])**. However, However, Shibata does not specifically teach:

- *command received over the public network*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches an application server disposed on a server side of a public network **([0370] the server communicates over a public or private computer network)**, in communication with a client terminal disposed on a client side of the public network for receiving commands **([abstract] a playback system for creating, editing and distributing multimedia content)** received over the public network **([0370]).** Therefore, it 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 to have modified the network taught by Shibata, to

have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 15, the limitations are addressed above and Shibata teaches further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 16, the limitations are addressed above and Shibata teaches further comprising:

receiving an edit mode entry signal over the network from the client terminal representing entry into the cue point edit mode **([0112]; [0117]; [0247] – [0248])**, and

switching the video editing environment to transmitting the cue point editing mode in response to receiving the edit mode entry signal **([0009] - [0010]; [0117])**.

With regard to claim 17, the limitations are addressed above and Shibata teaches further comprising:

receiving an edit mode entry signal over the network from the client terminal_representing entry into the cue point edit mode **([0112]; [0117]; [0247] – [0248])**,

determining a time position representing a time location within the video information being streamed at which the edit mode entry signal was received **([0024] time codes indicating edition start and end positions of the video scenes)**, and

creating a cue point location associated at least in part with the video information and the time position **([0009] - [0010]; [0117])**. However, Shibata does not specifically teach:

- *while streaming the video information to the client terminal, receiving an edit mode entry signal*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches while streaming the video information to the client terminal, receiving an edit mode entry signal **([0208] – [0209] the starting of objects can occur during playback of the presentation)**. Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 22, the limitations are addressed above and Shibata teaches wherein the client video data is streamed progressively to a video

playback environment **([0010])** at the remote client terminal **([0078]; [0112])**, allowing the video player to begin displaying streamed client video data while remaining client video data continues to be streamed **([0008]; [0010]; [0070])**. However, Shibata does not specifically teach:

- *server video data*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 24, Shibata teaches a method for handling video cue points **([0008] video content edition support system; [0248] edition point/cue point)**, the method comprising:

providing a computer system at a server side, the

computer system having at least one computer-readable medium comprising a video playback environment **([abstract]; [0008] – [0010]; [0072])**, and:

using the video playback environment to:

direct playback of a video file to a user interface running on a client terminal **([0010] an editor's terminal unit displays video content transmitted from the imaging device)**, the playback being directed to commence from a first location in the video file without storing the video file in its entirety to the client terminal **([0024] time codes indicating edition start and end positions of the video scenes)**;

direct display of a plurality of graphical cue point controls to the user interface concurrent with playback of the video file **([0247] – [0248] cue points associated with video scenes specified in video content data)**, each cue point control being associated with cue point information and a location within the video file **([0247] video scenes are cued up with text data and time codes specified in the video content data)**;

receive a selection of one of the plurality of graphical cue point controls from the client terminal via the user interface **(Figs. 14-15, and 18; [0004]; [0008]; [0070]; [0247] – [0248])**; and

direct playback of the video file to the user interface to commence from the location in the video file associated with the selected one of the plurality of graphical cue point controls without storing the video file in its entirety to the client terminal in response to receiving the selection **([0024] time codes indicating edition start and end positions of the video scenes; [0247] – [0248])**. However, Shibata does not specifically teach:

However, Shibata does not specifically teach:

- *disposed at a client side of the public network*
- *command received over the public network*
- *disposed on a server side of a public network*
- *receive a selection…during playback of the video file*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches an application server disposed on a server side of a public network **([0370] the server communicates over a public or private computer network)**, in communication with a client terminal disposed on a client side of the public network for receiving commands **([abstract] a playback system for creating, editing and distributing multimedia content)** received over the public network **([0370]).** Land further teaches while streaming the video information to the client terminal, receiving an edit mode entry signal **([0208] – [0209] the starting of objects can occur during playback of the presentation)**. Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 28, the limitations are addressed above and Shibata teaches wherein the video file is transmitted progressively **([0010]; [0110] the electronic mark data is real-time transmitted from the imaging device)**, allowing the user interface to play back portions of the video file while other portions of the video file continue to be transmitted **([0008]; [0010]; [0110])**.

With regard to claim 30, the limitations are addressed above and Shibata teaches further comprising transmitting over the network **([0112])**, using the computer system, a set of comment data **([0020])**, and

wherein the video playback environment comprises a comment handler **([0020])** configured to perform at least one of displaying at least a portion of the set of comment data on the client terminal or receiving at least a portion of the set of comment data over the network **([0020]; [0070]; [0112])**.

With regard to claim 31, the limitations are addressed above and Shibata teaches wherein the set of comment data comprises at least one of textual, audio, or video data **([0008]; [0020])** at least a portion of which relating to at least one of the video file, the cue point information, or another portion of the set of comment data **([0008]; [0020]; [0070]; [0247] – [0248])**.

With regard to claim 49, the limitations are addressed above and Shibata teaches wherein modifying the portion of the cue point information at the cue

point server **([0010]; [0024] generate edition information data for edited video content data for on-line editing)** in response to and according to the cue point editing command received from the client terminal **([0010]; [0024])** comprises re-associating the corresponding cue point with a different location within the video information **(According to [0110] and [0169], the electronic mark data can be changed or added with edition of the video scenes of the video content data)**. However, Shibata does not specifically teach:

- *commands received over the public network*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

Claims **3- 4, 18-19, 25-26, and 41- 48 are** rejected under 35 U.S.C. 103(a) as being unpatentable over **Shibata et al. (U.S. 2005/0152665)** in view of **Land et al. (U.S. 2004/0039934)** and further in view of **Macleod (U.S. 2003/0191691).**

With regard to claims 3 and 4, the limitations are addressed above and Shibata teaches a database configured to store **([0095])** at least a portion of the set of cue point information **([0247] – [0248])** in relation to at least a portion of the set of video information **[0008]**. However, Shibata and Land do not teach:

- *a relational database*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system [abstract]. Macleod also teaches a **relational database** for a confidential distribution service for one or more products or services [0012]. Therefore, it 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 to have modified the database taught by Shibata and public network taught by Land, to have included a relational database as taught by Macleod, to have achieved storage of video products on a database to efficiently and effectively handle product distribution in a networked environment.

With regard to claim 18, the limitations are addressed above and Shibata teaches a system for handling video cue points **([0008]; [0274] – [0248])**. However, Shibata and Land do not teach:

- *receiving, over the network, authentication information relating to access authority of the remote client terminal*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system **[abstract]**. Macleod also teaches distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service **[0012]**. Therefore, it 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 to have modified the system taught by Shibata and public network taught by Land, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 19, the limitations are addressed above. However, Shibata and Land do not teach

- *denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the remote client terminal*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system **[abstract]**. Macleod also teaches distribution service that serves to authenticate the identities of users and

relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service **[0012]**. Therefore, it 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 to have modified the system taught by Shibata and public network taught by Land, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 25, the method claim directly corresponds to the method claim 18 respectively, and therefore is rejected with the same rationale.

With regard to claim 26, the method claim directly corresponds to the method claim 19 respectively, and therefore is rejected with the same rationale.

With regard to claim 41, Shibata teaches a system for handling video cue points **([0008] video content edition support system; [0248] edition point/cue point)**, the system comprising:

an application server **([0070])** accessible by a plurality of remote client terminals **(Fig. 1, 4)** configured to run over a network **([0078]; [0112])**;

a video editing module **[abstract]** configured to provide edit interactivity with cue point information **([0008] video content edition support system; [0248] edition point/cue point)** by:

receiving a cue point editing command **([0247] – [0248])** from one of the remote client terminals **([0112])**; and

modifying a portion of the cue point information at the video editing module **([0010]; [0024] generate edition information data for edited video content data for on-line editing)** in response to and according to the cue point editing command received from the client terminal **([0010]; [0024])**,

the cue point information corresponding to a cue point indicating a location within at least one video file **([0247] – [0248] cue points associated with video scenes specified in video content data)**. However, Shibata does not specifically teach *a public network*. Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it would have been obvious to have modified the client/server relationship and cue point information as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network. However, Shibata and Land do not teach:

- *a client authentication module configured to authenticate remote client terminals as editor terminals*

- *cue-point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system **[abstract]**. Macleod also teaches distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service **[0012]**. Therefore, it 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 to have modified the system taught by Shibata and public network and server-side-cue-point information taught by Land, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 42, the system claim corresponds to the method claim 24, respectively, and therefore is rejected with the same rationale.

With regard to claim 43, the limitations are addressed above and Shibata teaches wherein the video playback module is further configured to provide

access to edit interactivity via the video editing module **([abstract])**. However, Shibata does not teach *a public network and server-side-cue-point information*. Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it would have been obvious to have modified the client/server relationship and cue point information as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network. However, Shibata and Land do not teach:

- *client terminal is authenticated by the client authentication module as an editor terminal*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system **[abstract]**. Macleod also teaches distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service **[0012]**. Therefore, it 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 to have modified the system taught by Shibata and public network and server-side-cue-point information taught by Land, to have included an authentication server

taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 44, the limitations are addressed above and Shibata teaches wherein the video playback module and the video editing module are both communicatively coupled with a client-side data storage system **(Figs. 1-2)** configured to store **([0095])** the video file **([0008)** and the cue-point information **([0247] – [0248])**. However, Shibata does not teach *an authentication module*. Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system **[abstract]**. Macleod also teaches distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service **[0012].** Therefore, it would have been obvious to have modified the system taught by Shibata, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only. However, Shibata and MacLeod do not teach:

- *server-side cue-point information*
- *server-side video information*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract]**. Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it would have been obvious to have modified the client/server relationship as taught by Shibata and authentication module taught by MacLeod, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 45, the limitations are addressed above and Shibata teaches wherein modifying a portion of the cue point information affects the corresponding cue point by at least one of: creating the cue point, deleting the cue point, temporally moving the cue point, editing a label associated with the cue point, or editing an association between multiple cue points including the cue point **(Fig. 18; [0009] – [0010]; [0022]; [0024]).**

With regard to claim 46, the limitations are addressed above and Shibata teaches wherein the application server **([0070])** is configured to run the video editing module **([0008]; [0248])** over the network **([0078]; [0112])** so as to provide the edit interactivity according to data received over the network running

on the remote client terminal **([0077] - [0078]; [0112]).** However, Shibata does not teach:

- *public network via a standard Internet browser*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract].** Land also teaches a server that communicates over a public network **[0370]** as well as an Internet-enabled server **[0368]** and including Web browsers **([0102]; [0340]; [0394]).** Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 47, the limitations are addressed above. However, Shibata does not teach:

- *public network*
- *without a dedicated client-side application running on the remote client terminal*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract].** Land also teaches a server that communicates over a public network

[0370] as well as an Internet-enabled server **[0368]** and including Web browsers **([0102]; [0340]; [0394])**. Additionally, Land teaches edition without a dedicated client-side application running on the remote client terminal **([0028]; [0093]; [0275])**. Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 48, the limitations are addressed above. However, Shibata and MacLeod do not teach:

- *server-side video information*

Land teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content **[abstract].** Land also teaches a server that communicates over a public network **[0370]** and receiving edit information within the server video data **([0278]; [0280]; [0282] – [0284])**. Therefore, it would have been obvious to have modified the client/server relationship as taught by Shibata and authentication module taught by MacLeod, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

Allowable Subject Matter

Claims **6-7 are** allowed.

Response to Arguments

Applicant's arguments filed 12-13-10 have been fully considered but they are not persuasive. In the remarks, Applicant argues:

(1) The cited references fail to teach remote editing of and interaction with cue points associated with a video file over a public client-server architecture.

Examiner respectfully disagrees with Applicant:

As to point (1), Applicant supports his remarks by mentioning that the cited references fail to teach remote editing of and interaction with cue points associated with a video file over a public client-server architecture. As such, the Shibata reference teaches a video content edition support system [0008] for editing electronic mark data and editing cue points **associated with video scenes specified in video content data** [0248]. Shibata further teaches an imaging device connected to a plurality of editor's terminal units in a peer-to-peer manner via a network (*remote editing of and interaction with cue points associated with a video file*) and further providing a server between the imaging device and editor's terminal unit to build a client/server network (*client-server architecture*) in which the imaging devices and editor's terminal units are handled as

clients in place of the peer-to-peer network ([0069] – [0070]). Moreover, the Land reference was incorporated as it teaches a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content [abstract]. Land also teaches an application server disposed on a server side of a public network ([0370] the server communicates over a public or private computer network), in communication with a client terminal disposed on a client side of the public network for receiving commands ([abstract] a playback system for creating, editing and distributing multimedia content) received over the public network ([0370]). Therefore, the combination of the Shibata and Land references sufficiently teach the limitations of the respective claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/ANDREA LEGGETT/
Examiner, Art Unit 2171
April 21, 2012

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

SEARCHED

Class	Subclass	Date	Examiner
715	716	3/17/2010	A.L.
715	723	3/17/2010	A.L.

SEARCH NOTES

Search Notes	Date	Examiner
EAST Search	3/17/2010	A.L.
PLUS Search (see in eDan)	3/17/2010	A.L.
Inventor Name Search (EAST)	3/17/2010	A.L.
EAST Search	9/25/2010	A.L.
EAST Search	4/21/2012	A.L.

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner

/ANDREA LEGGETT/ Examiner.Art Unit 2173	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	6	(US-20070250899-$ or US-20050152665-$ or US-20040039934-$ or US-20030191691-$ or US-20080247726-$ or US-20080092193-$).did.	US-PGPUB	ADJ	OFF	2012/04/21 13:07
L3	0	L2 AND REMOTE (edit or editing or edition)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2012/04/21 13:07
S1	2	((CHRISTIAN) near2 (STERNER)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:54
S2	2	((HAIDER) near2 (ZAINY)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S3	1	((PHILIP) near2 (DIGIULIO)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S4	2	wellcomemat.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:56
S5	3	(("20070250899") or ("20040039934") or ("20050152665")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:09
S6	4	(("20070250899") or ("20040039934") or ("20050152665") or ("20030191691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:35
S7	1234	"715/716".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:10
S8	905	"715/723".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:21
S9	39	video edit$9 module	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/25 16:50

EAST Search History (Interference)

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	**Art Unit**
	ANDREA LEGGETT	2173

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010	04/21/2012						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	=						
	7	✓	✓	=						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
	11	✓	✓	✓						
	12	✓	✓	✓						
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	14	✓	✓	✓						
	15	✓	✓	✓						
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	31	✓	✓	✓						
	32	✓	-	-						
	33	✓	-	-						
	34	✓	-	-						
	35	✓	-	-						
	36	✓	-	-						

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	**Art Unit**
	ANDREA LEGGETT	2173

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010	04/21/2012						
	37	✓	-	-						
	38	✓	-	-						
	39	✓	-	-						
	40	✓	-	-						
	41		✓	✓						
	42		✓	✓						
	43		✓	✓						
	44		✓	✓						
	45		✓	✓						
	46		✓	✓						
	47		✓	✓						
	48		✓	✓						
	49			✓						

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
KILPATRICK TOWNSEND & STOCKTON LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

POWER OF ATTORNEY NOTICE

OC000000051027859

Date Mailed: 11/23/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/09/2011.

- 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).

/tnnguyen/

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

25231
MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237

POA ACCEPTANCE LETTER

OC00000051027862

Date Mailed: 11/23/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/09/2011.

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

/tnnguyen/

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

PTO/SB/81 (01-09)
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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/744,721
Filing Date	05-04-2007
First Named Inventor	Christian A. Sterner
Title	METHODS AND SYSTEMS F
Art Unit	2171
Examiner Name	Leggett, Andrea C.
Attorney Docket Number	026819-000110US

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

25231

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

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OR

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

I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature		Date	11/4/11
Name	Christian A. Sterner	Telephone	(303) 499-0589
Title and Company	Co-Founder, Wellcomemat LLC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

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.**

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: WellcomeMat LLC

Application No./Patent No.: 11/744,721 Filed/Issue Date: 05-04-2007

Titled: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

WELLCOMEMAT CUSTOMER INFO. , a Corporation

(Name of Assignee) (Type of 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 in (The extent (by percentage) of its ownership interest is _____ %); or

3. [ ] the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

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

A. [X] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 021803, Frame 0492, or for which a copy therefore is attached.

OR

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

1. From: _____ To: _____

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

2. From: _____ To: _____

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

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

3. From: _____ To: _____

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

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

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

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

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

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

/Daniel J. Sherwinter, Reg. No. 61,751/ November 8, 2011

Signature Date

Daniel J. Sherwinter Attorney

Printed or Typed Name Title

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

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

Privacy Act Statement

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

500698509A

NOVEMBER 07, 2008

PTAS

DARIN J. GIBBY
TOWNSEND AND TOWNSEND AND CREW LLP
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CA 94111

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/07/2008 REEL/FRAME: 021803/0492
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 026819-000110US

ASSIGNOR:
STERNER, CHRISTIAN A. DOC DATE: 11/06/2008

ASSIGNOR:
ZAINY, HAIDER DOC DATE: 11/06/2008

ASSIGNOR:
DIGIULIO, PHILIP THOMAS DOC DATE: 11/06/2008

ASSIGNEE:
WELLCOMEMAT CUSTOMER INFO.
1525 QUINCE AVENUE
BOULDER, COLORADO 80304

SERIAL NUMBER: 11744721 FILING DATE: 05/04/2007
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

021803/0492 PAGE 2

MARCUS KIRK, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

Attorney Docket No.: 026819-000110US

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS Christian A. Sterner of 2525 Quince Avenue, Boulder, CO 80304; Haider Zainy of 1270 Marion St. #312, Denver, CO 80218; and Philip Thomas DiGiulio of 53 West 16th Street, Apt. 1A, New York, NY 10011, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Date(s) of execution of Declaration:

Filing Date: May 4, 2007

Application No.: 11/744,721; and

WHEREAS, WellcomeMat Customer Info, located at 1525 Quince Avenue, Boulder, CO 80304, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 11/4/08

Christian A. Sterner

Dated: 11/6/08

Haider Zainy

Dated: _____

Philip Thomas DiGiulio

61070097 v1

Attorney Docket No.: 026819-000110US

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS Christian A. Sterner of 2525 Quince Avenue, Boulder, CO 80304; Haider Zainy of 1270 Marion St. #312, Denver, CO 80218; and Philip Thomas DiGiulio of 53 West 16th Street, Apt. 1A, New York, NY 10011, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Date(s) of execution of Declaration:

Filing Date: May 4, 2007

Application No.: 11/744,721; and

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For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: _____ _____
Christian A. Sterner

Dated: _____ _____
Haider Zainy

Dated: 11/06/07 _____
Philip Thomas DiGiulio

61070097 v1

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

11/07/2008
500698509

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Christian A. Sterner	11/06/2008
Haider Zainy	11/06/2008
Philip Thomas DiGiulio	11/06/2008

RECEIVING PARTY DATA

Name:	WellcomeMat Customer Info.
Street Address:	1525 Quince Avenue
City:	Boulder
State/Country:	COLORADO
Postal Code:	80304

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11744721

CH $40.00 11744721

CORRESPONDENCE DATA

Fax Number: (415)576-0300
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 414-576-0200
Email: djgibby@townsend.com
Correspondent Name: Darin J. Gibby
Address Line 1: Townsend and Townsend and Crew LLP
Address Line 2: Two Embarcadero Center, 8th Floor
Address Line 4: San Francisco, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	026819-000110US
NAME OF SUBMITTER:	Darin J. Gibby

Total Attachments: 2
source=026819-000110 Assignment#page1.tif

source=026819-000110 Assignment#page2.tif

UNITED STATES PATENT AND TRADEMARK OFFICE

Facsimile Transmission

To:	**Name:**	DARIN J. GIBBY
	Company:	TOWNSEND AND TOWNSEND AND CREW LLP
	Fax Number:	14155760300
	Voice Phone:	
From:	**Name:**	ASSIGNMENT SERVICES BRANCH
	Voice Phone:	571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

Pg#	Description
1	Cover Page
2	28.TXT
4	Document 1, Batch 1465941

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Friday, November 07, 2008 6:51:52 PM
Number of pages including this cover sheet: 05

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PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Christian A. Sterner	11/06/2008
Haider Zainy	11/06/2008
Philip Thomas DiGiulio	11/06/2008

RECEIVING PARTY DATA

Name:	WellcomeMat Customer Info.
Street Address:	1525 Quince Avenue
City:	Boulder
State/Country:	COLORADO
Postal Code:	80304

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11744721

CORRESPONDENCE DATA

Fax Number: (415)576-0300
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 414-576-0200
Email: djgibby@townsend.com

Correspondent Name:	Darin J. Gibby
Address Line 1:	Townsend and Townsend and Crew LLP
Address Line 2:	Two Embarcadero Center, 8th Floor
Address Line 4:	San Francisco, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	026819-000110US
NAME OF SUBMITTER:	Darin J. Gibby
Signature:	/darin j gibby/
Date:	11/07/2008

Total Attachments: 2
source=026819-000110 Assignment#page1.tif
source=026819-000110 Assignment#page2.tif

RECEIPT INFORMATION

EPAS ID:	PAT713510
Receipt Date:	11/07/2008
Fee Amount:	$40

Return to home page

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Electronic Acknowledgement Receipt

EFS ID:	11373880
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Daniel Jonah Sherwinter/Kalyn Black
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	026819-000110US
Receipt Date:	09-NOV-2011
Filing Date:	04-MAY-2007
Time Stamp:	17:57:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		721_POA.pdf	815115 5d98ddbc1d51bd92718f65b189e703d53ee6f5a0	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Power of Attorney	1	1
	Miscellaneous Incoming Letter	2	12
Warnings:			
Information:			
	Total Files Size (in bytes):	815115	

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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.

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
KILPATRICK TOWNSEND & STOCKTON LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

MISCELLANEOUS NOTICE



Date Mailed: 08/01/2011

A communication which cannot be delivered in electronic form has been mailed to the applicant.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

OC000000049026481

20350
KILPATRICK TOWNSEND & STOCKTON LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

Cc: MARSH, FISCHMANN & BREYFOGLE LLP
8055 EAST TUFTS AVENUE
SUITE 450
DENVER, CO 80237

Date Mailed: 07/29/2011

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed 07/22/2011 is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(b) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☒ The signature(s) of Haider Zainy; Philip Thomas DiGiulio , a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.

Questions relating to this Notice should be directed to the Application Assistance Unit.

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

PTO/SB/81 (01-09)
Approved for use through 11/30/2011. OMB 0651-0035
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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/744,721
Filing Date	05-04-2007
First Named Inventor	Christian A. Sterner
Title	METHODS AND SYSTEMS FOR ONLINE VIDEO.....
Art Unit	2171
Examiner Name	Leggett, Andrea C.
Attorney Docket Number	026819-000110US

I hereby revoke all previous powers of attorney given in the above-identified application.

☒ A Power of Attorney is submitted herewith.

OR

☐ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number.

OR

☒ The address associated with Customer Number: 25231

OR

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

I am the:

☒ Applicant/Inventor.

OR

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature		Date	7/14/2011
Name	Christian A. Sterner	Telephone	(303) 499-0589
Title and Company	Co-Founder, Wellcomemat, LLC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

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.

Electronic Acknowledgement Receipt

EFS ID:	10581648
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Daniel Jonah Sherwinter/Kalyn Black
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	026819-000110US
Receipt Date:	22-JUL-2011
Filing Date:	04-MAY-2007
Time Stamp:	17:26:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	Signed_Power_of_Attorney.pdf	4037158 206d41634a6bad0f41ea90e050c56308e3908ad2	no	1

Warnings:	
Information:	

Total Files Size (in bytes):	4037158

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
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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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US	9408

20350 7590 12/16/2010

TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2173	

MAIL DATE	DELIVERY MODE
12/16/2010	PAPER

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.

Interview Summary	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2173	

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

(1) *ANDREA LEGGETT*. (3) *Kieu Vu*.

(2) *Daniel Sherwinter*. (4)_____.

Date of Interview: *06 December 2010*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Shibata (U.S. 2005/0152665) and Land et al. (U.S. 2004/0039934)*.

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Interpretation of claim 1 took place and Examiner informed applicant that the proposed amendments would be sufficient to futher clarify the inventive concept*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/Kieu Vu/
Supervisory Patent Examiner, Art Unit 2173

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

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

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

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

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

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

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

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

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

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

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

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

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

Examiner to Check for Accuracy

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

Request for Continued Examination (RCE) Transmittal		
Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	11/744,721
	Filing Date	May 4, 2007
	First Named Inventor	Sterner, Christian A.
	Art Unit	2173
	Examiner Name	Andrea C. Leggett
	Attorney Docket Number	026819-000110US

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).

   a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
      i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
      ii. ☐ Other _____

   b. ☒ Enclosed
      i. ☒ Amendment/Reply
      ii. ☐ Affidavit(s)/ Declaration(s)
      iii ☐ Information Disclosure Statement (IDS)
      iv. ☐ Other _____

2. Miscellaneous

   a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

   b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

   a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 20-1430.
      i. ☒ RCE fee required under 37 CFR 1.17(e) $ 405.
      ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17) $ _____.
      iii. ☐ Other _____ $ _____.

   b. ☐ Check in the amount of $ _____ enclosed

   c. ☐ Payment by credit card (Form PTO-2038 enclosed) for $ _____.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED			
Signature	/Daniel J. Sherwinter/	Date	December 13, 2010
Name (Print /Type)	Daniel J. Sherwinter	Registration No.	61,751

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on the date shown below.

Signature	/Sherry Soares/		
Name (Print /Type)	Sherry Soares	Date	December 13, 2010

63044483 v1

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on December 13, 2010.

TOWNSEND and TOWNSEND and CREW LLP

By: /Sherry Soares/
Sherry Soares

AMENDMENT UNDER 37 CFR 1.114 REQUEST FOR CONTINUED EXAMINATION (RCE)

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Christian A. Sterner

Application No.: 11/744,721

Filed: May 4, 2007

For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Customer No.: 20350

Confirmation No.: 9408

Examiner: Andrea C. Leggett

Art Unit: 2173

AMENDMENT UNDER 37 CFR 1.114 REQUEST FOR CONTINUED EXAMINATION (RCE)

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

Commissioner:

In response to the Final Office Action mailed September 30, 2010 on the above-referenced application, please enter the following amendments and remarks:

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

Remarks/Arguments begin on page 13 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended) A system for handling video cue points, the system comprising:

~~**an application server accessible by a remote client terminal over a network, the network being a public network;**~~

a video server ~~**in operative communication with the application server and**~~ configured to serve a set of video information **from a plurality of video files** ~~**indexable by a set of video identifiers**~~;

a cue point server ~~**in operative communication with at least one of the application server or the video server, and**~~ configured to serve a set of cue point information **corresponding to cue points, each cue point associated with at least one video file and indicating a location within the video information from the associated at least one video file**; and

an application server, in operative communication with the video server and the cue point server, disposed on a server side of a public network, in communication with a client terminal disposed on a client side of the public network, and configured to run a video editing environment configured to:

receive a cue point editing command over the public network from the client terminal; and

modify a portion of the cue point information at the cue point server in response to and according to the cue point editing command received over the public network from the client terminal.

~~**a video environment**~~

~~configured to be runnable over the network by the application server to provide interactivity by the video environment with the set of video information according to data received over the network from the remote client terminal, and~~

~~comprising a cue point handler configured to execute at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information according to the data received over the network from the client terminal.~~

2. (Original) The system of claim 1, further comprising a data store configured to store at least a portion of the set of video information and at least a portion of the set of cue point information.

3. (Original) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least a portion of the set of video information.

4. (Original) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least another portion of the set of cue point information.

5. (Original) The system of claim 1, wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy.

6. (Currently Amended) The system of claim 1, wherein the video **editing** environment comprises ~~**at least one of**~~ a video player ~~**or a video editor**~~ **configured to:**

receive a cue point selection over the public network from the client terminal identifying one of the cue points corresponding to a portion of the video information of one of the video files; and

streaming the portion of the video information to the client terminal over the public network in response to receiving the cue point selection and without storing the video file in its entirety to the client terminal.

7. (Currently Amended) The system of claim 1, further comprising an authentication server configured to authenticate clients of the system **such that the portion of the cue point information at the cue point server is modified according to the cue point editing command received over the public network from the client terminal only when the client terminal is authenticated by the authentication server**.

8. (Original) The system of claim 1, further comprising a comment handler configured to perform at least one of receiving, displaying, or associating comment information, wherein the comment information

comprises at least one of textual, audio, or video information, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information.

9. (Original) The system of claim 1, further comprising a video authorer configured to communicate with a video creation device.

10. (Original) The system of claim 1, wherein the video server is in operative communication with the application server via the network.

11. (Currently Amended) The system of claim 1, wherein the cue point server is in operative communication with ~~**at least one of**~~ the application server ~~**or the video server**~~ via the network.

12. (Original) The system of claim 1, wherein the network is the Internet.

13. (Currently Amended) A method for handling video cue points, the method comprising:

providing a computer system having at least one computer-readable medium comprising a video editing environment, and **being disposed at a server side of a public network** ~~**in operative communication with a network, the network being a public network**~~;

receiving **a set of video information**[[,]] at the video editing environment using the computer system~~**, server video data from a set of stored video data**~~;

receiving a set of cue point information at the video editing environment using the computer system;

receiving **a cue point editing command** over the network from a remote client terminal **disposed at a client side of the public network**, using the computer system~~**, a set of cue point information**~~; and

modifying a portion of the cue point information at the server-side of the public network according to the cue point editing command received over the public network from the client terminal.

~~**updating a set of cue point associations at the video editing environment with the server video data, the set of cue point associations being based at least in part on the set of cue point information.**~~

14. (Currently Amended) The method of claim 13, further comprising providing a cue point editing mode **as part of the video editing environment** configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information **according to the cue point editing command received over the public network from the client terminal**.

15. (Original) The method of claim 13, further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information.

16. (Currently Amended) The method of claim 14, further comprising:

receiving an edit mode entry signal over the network **from the client terminal** representing entry into the cue point edit mode, and

switching the video editing environment to ~~**transmitting**~~ the cue point editing mode **in response to** ~~**after**~~ receiving the edit mode entry signal.

17. (Currently Amended) The method of claim 14, further comprising:

while streaming the video information to the client terminal, receiving an edit mode entry signal over the network **from the client terminal** representing entry into the cue point edit mode,

determining ~~**receiving**~~ a time position representing **a time location within the video information being streamed** ~~**the time position within the server video data**~~ at which the edit mode entry signal was received, and

creating a cue point location associated at least in part with the **video information** ~~**server video data**~~ and the time position.

18. (Previously Presented) The method of claim 13, further comprising receiving, over the network, authentication information relating to access authority of the remote client terminal.

19. (Previously Presented) The method of claim 18, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the remote client terminal.

20. – 21. (Canceled)

22. (Previously Presented) The method of claim 13, wherein the server video data is streamed progressively to a video playback environment at the remote client terminal, allowing the video player to begin displaying streamed server video data while remaining server video data continues to be streamed.

23. (Canceled)

24. (Currently Amended) A method for handling video cue points, the method comprising:

providing a computer system **at a server side of a public network, the computer system** having at least one computer-readable medium comprising a video playback environment, and**:**

using the video playback environment to:

direct playback of a video file to a user interface running on a client terminal disposed at a client side of the public network, the playback being directed to commence from a first location in the video file without storing the video file in its entirety to the client terminal;

direct display of a plurality of graphical cue point controls to the user interface concurrent with playback of the video file, each cue point control being associated with cue point information and a location within the video file;

receive a selection of one of the plurality of graphical cue point controls over the public network from the client terminal via the user interface during playback of the video file; and

direct playback of the video file to the user interface to commence from the location in the video file associated with the selected one of the plurality of graphical cue point controls without storing the video file in its entirety to the client terminal in response to receiving the selection.

~~**in operative communication with a network, the network being a public network**~~;

~~**receiving, using the computer system, server video data from a set of stored video data;**~~

~~**receiving, using the computer system, server cue point information from a set of stored cue point information;**~~

~~receiving, using the computer system, a selected cue point over the network from a client terminal, the selected cue point indicating navigation of the server video data according to the server cue point information;~~

~~locating, using the computer system, a time position in the server video data based at least in part on the selected cue point; and~~

~~transmitting, using the computer system, over the network for display to the client terminal, a portion of the server video data according to the time position.~~

25. (Previously Presented) The method of claim 24, further comprising receiving, over the network, authentication information relating to access authority of the client terminal.

26. (Original) The method of claim 25, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

27. (Canceled)

28. (Currently Amended) The method of claim 27, wherein the **video file** ~~portion of the server video data~~ is transmitted progressively, allowing the **user interface to play back portions of the video file while other portions of the video file continue to be transmitted** ~~video player to begin displaying transmitted client video data while remaining server video data continues to be transmitted~~.

29. (Canceled)

30. (Previously Presented) The method of claim 24, further comprising transmitting over the network, using the computer system, a set of comment data, and

wherein the video playback environment comprises a comment handler configured to perform at least one of displaying at least a portion of the set of comment data on the client terminal or receiving at least a portion of the set of comment data over the network.

31. (Currently Amended) The method of claim 30, wherein the set of comment data comprises at least one of textual, audio, or video data at least a portion of which relating to at least one of the **video file** ~~**portion of the server video data**~~, the ~~**server**~~ cue point information, or another portion of the set of comment data.

32. – 40. (Canceled)

41. (Currently Amended) A system for handling video cue points, the system comprising:

an application server accessible by a plurality of remote client terminals over a public network and configured to run, over the public network:

a client authentication module configured to authenticate remote client terminals as editor terminals; and

a video editing module configured to provide edit interactivity with ~~**server-side video information and server-side cue-point information according to data received over the public network from a remote client terminal, the edit interactivity with the server-side cue-point information configured to allow modification of the server-side**~~ cue point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal **by:**

receiving a cue point editing command over the public network from one of the remote client terminals; and

modifying a portion of the cue point information at the video editing module in response to and according to the cue point editing command received over the public network from the client terminal,

the cue point information corresponding to a cue point indicating a location within at least one video file.

42. (Currently Amended) The system of claim 41, wherein the application server **is** configured further to run, over the public network:

a video playback module configured**, without authentication of the remote client terminal by the client authentication module as an editor terminal,** to**:**

direct playback of the video file to a user interface running on the client terminal over the public network, the playback being directed to commence from a first location in the video file without storing the video file in its entirety to the client terminal;

direct display of a plurality of graphical cue point controls to the user interface concurrent with playback of the video file, each cue point control being associated with cue point information and a location within the video file;

receive a selection of one of the plurality of graphical cue point controls over the public network from the client terminal via the user interface during playback of the video file; and

direct playback of the video file to the user interface to commence from the location in the video file associated with the selected one of the plurality of graphical cue point controls without storing the video file in its entirety to the client terminal in response to receiving the selection.

~~**provide playback interactivity with the server-side video information and the server-side cue-point information according to data received over the public network from the remote client terminal, the playback interactivity with the server-side cue-point information configured to allow use of the server-side cue-point information to navigate the server-side video information without authenticated of the remote client terminal by the client authentication module as an editor terminal.**~~

43. (Previously Presented) The system of claim 42, wherein the video playback module is further configured to provide access to edit interactivity via the video editing module when the remote client terminal is authenticated by the client authentication module as an editor terminal.

44. (Currently Amended) The system of claim 42, wherein the video playback module and the video editing module are both communicatively coupled with a server-side data storage system configured to store the **video file and the** ~~**server-side video information and the server-side**~~ cue-point information.

45. (Currently Amended) The system of claim 41, wherein ~~**modification of the server-side**~~ **modifying a portion of the** cue-point information **affects the corresponding cue point by at least one of:** ~~**comprises creation of a**~~ **creating the** cue point, ~~**deletion of a**~~ **deleting the** cue point, ~~**temporal movement of a**~~ **temporally moving the** cue point, ~~**edition of**~~ **editing** a label associated with [[a]] **the** cue point, ~~**and edition of**~~ **or editing** an association between multiple cue points **including the cue point**.

46. (Currently Amended) The system of claim 41, wherein the application server is configured to run the video editing module over the public network ~~**modification**~~, so as to provide the edit interactivity according to data received over the public network via a standard Internet browser running on the remote client terminal.

47. (Currently Amended) The system of claim 41, wherein the application server is configured to run the video editing module over the public network ~~**modification**~~, so as to provide the edit interactivity without a dedicated client-side application running on the remote client terminal.

48. (Currently Amended) The system of claim 41, wherein the application server is configured to run the video editing module over the public network ~~**modification**~~, so as to provide the edit interactivity without ~~**downloading**~~ **storing** the server-side video information to the remote client terminal.

49. (New) The system of claim 1, wherein modifying the portion of the cue point information at the cue point server in response to and according to the cue point editing

command received over the public network from the client terminal comprises re-associating the corresponding cue point with a different location within the video information.

REMARKS/ARGUMENTS

Interview

The undersigned thanks Examiners for the courtesy of a telephone interview to discuss the Office Action and appreciates their helpful suggestions.

A discussion with Examiners Leggett and Vu was conducted via telephone in the present matter on December 6, 2010. While no agreement was reached, substantial progress was made in identifying allowable subject matter and furthering prosecution. After a brief summary of the invention and the prosecution history thusfar, several differences were identified between the present application and the cited art. For example, it was agreed by all parties that none of the cited references teach or suggest *remote handling of cue point information over a public, client-server architecture*.

While Applicant maintains that other differences are present between the present application and the cited art, Applicant agreed to amend the claims to focus on and clarify those agreed-upon differences between the present application and the cited art.

Accordingly, the claims are amended herein at least to reflect Examiners' suggestions as to overcoming the cited art and to potentially allowable subject matter.

Status of the Claims

Before this Amendment, claims 1 – 19, 22, 24 – 28, 30, 31, and 41 – 48 were present for examination. Claims 1, 6, 7, 11, 13, 14, 16, 17, 24, 28, 31, 41, 42, and 44 – 48 are amended. Claim 27 is canceled; and new claim 49 is added. Therefore, claims 1 – 19, 22, 24 – 26, 28, 30, 31, and 41 – 49 are present for examination, and claims 1, 13, 24, and 41 are the independent claims. No new matter is added by these amendments. Applicant respectfully requests reconsideration of this Application as amended.

The final Office Action dated September 30, 2010 ("Office Action") rejected claims 1 – 2, 5 – 6, 8 – 17, 22, 24, 27 – 28, and 30 – 31 under 35 U.S.C. §103(a) as being

unpatentable over the cited portions of Shibata et al., U.S. Publication No. 2005/0152665 ("Shibata"), in view of the cited portions of Land et al., U.S. Publication No. 2004/0039934 ("Land"). The Office Action rejected claims 3 – 4, 7, 18 – 19, 25 – 26, and 41 – 48 under 35 U.S.C. §103(a) as being unpatentable over Shibata, in view of Land, and further in view of the cited portions of Macleod, U.S. Publication No. 2003/0191691 ("Macleod"). Applicant respectfully requests reconsideration for the reasons that follow.

Claim Objections

Claims 9 and 42 are objected to because of certain informalities. Applicant appreciates Examiner's suggestions in correcting the claim terms. Regarding claim 9, Applicant maintains that the term "authorer" was used intentionally to connote something that authors, and has not been amended accordingly. Regarding claim 42, the offending terminology has been removed during amendment of the claim, such that the objection is moot.

Applicant respectfully requests withdrawal of the claim objections.

35 U.S.C. §103 Rejections

The Office Action rejected independent claims 1, 13, 24, and 41 under 35 U.S.C. §103 as being unpatentable over combinations of Shibata, Land, and Macleod. To establish a *prima facie* case of obviousness, the cited references, combined with the knowledge of those of ordinary skill in the art, must teach or suggest all the claim limitations. Applicant respectfully traverses this rejection at least because the combination of Shibata, Land, Macleod, and ordinary knowledge in the art fails to teach or suggest all the recitations of claims 1, 13, 24, and 41.

None of the cited art, alone or in combination, apparently teaches or suggests remote editing of and interaction with cue points associated with a video file over a public client-server architecture. For example, claim 1 recites in part: "a [server-side] video editing environment configured to: receive a cue point editing command over the public network from the client terminal; and modify a portion of the cue point information at the cue point server in response to and according to the cue point editing command received over the public network

from the client terminal." Similar remote cue point interactions are recited in claims 13, 24, and 41.

For the sake of illustration, suppose a user wants to sell her home. She takes a five-minute video of the entire home and uploads the video to a remote video server. Now, to make the video more appealing to potential buyers, she wishes to associate cue points with locations in the video where she is describing the "Kitchen" or "Master Bathroom." This may allow potential buyers to skip to portions of the video in which they are most interested.

According to embodiments of the claims, the seller can use a standard web browser to create and modify those cue points remotely, via a remote video environment running on an application server, without ever storing the video in its entirety. The user does not need to have dedicated local video editing capability. The remote application server handles coordination between the video data and the cue point data and serves the data, only as needed, across the public network to the client user.

The Office Action seems primarily to rely on Shibata to teach cue point editing. Shibata generally discusses a video editing environment where mark data (construed by the Office Action as the "cue points" of the claims) can be inserted into a video file either at a recording device or at a video editor. Portions of Shibata mention that those devices may be connected over a network so as to communicate the video file and/or the mark data between the recording device and the video editor. In order to edit video and/or cue point information, Shibata seems to require storing all the data locally, then using local editing functionality.

Accordingly, even if, *arguendo*, Shibata could be construed as teaching the cue point handling functionality recited in the claims, it would apparently only teach local cue point handling and would apparently require local storage of the data at the client terminal performing the editing. This is different from *remote editing of and/or interaction with cue points associated with a video file over a public client-server architecture*.

Notably, the Office Action admits that "Shibata does not teach: the network being a public network" (Office Action, p. 4). Accordingly, the Office Action turns to the lengthy

disclosure of Land for its general discussion of multimedia presentation functionality in a public client-server architecture. Land generally discusses two implementations, a "resident application" (e.g., at ¶ [0380]) and a "plug-in application" (e.g., at ¶ [0393]). The description in Land repeatedly notes that the two implementations are effectively the same (e.g., "the flow of control in the system of FIG. 51, as well as the capabilities and interrelationships of the various system components, is the same as in the system of FIG. 50" (at ¶ [0395])).

In particular, both implementations clearly describe local editing functionality, and only appear to use the network for distribution of content. For example, even though the plug-in application communicates with a host, it is still installed locally as a client plug-in to facilitate local editing and playback functions. Accordingly, it is not enough to combine the mark data functions of Shibata with a general discussion of distributed presentation functionality from Land. That combination alone would only suggest the possibility of using a public network architecture to distribute files for local editing. *The combination would still seem to fail to teach or suggest the type of remote cue point handling recited in the claims*.

Turning finally to Macleod, the Office Action does not appear to cite Macleod to remedy any of the deficiencies of Shibata or Land discussed above. Instead, Macleod is cited for its general discussion of relational databases and access controls. While it is true that both relational databases and access controls have been used in other contexts, Applicant maintains that their use in the context recited by the claims is novel and inventive. For example, unauthorized users of the server-side video environments may be allowed to interact with existing cue points during video playback under one type of access control (e.g., to navigate through published videos using published cue points), while only authorized users may be allowed to edit (e.g., add, delete, move, etc.) cue points.

For at least these reasons, Shibata, Land, and Macleod, alone and in combination, fail to teach or suggest the recitations of claims 1, 13, 24, and 41. Further, the Office Action does not provide any teaching from other art or reason why this recitation would be within the knowledge of a person of ordinary skill in the art. As such, the combined teachings of the art, as

cited by the Office Action, fail to establish a *prima facie* case of obviousness as to independent claims 1, 13, 24, and 41. Moreover, claims 2 – 12, 14 – 19, 22, 25, 26, 28, 30, 31, and 42 – 49 are believed allowable at least for reasons of their dependence from allowable base claims. Applicants, therefore, respectfully request that the §103 rejections to all the claims be withdrawn.

CONCLUSION

In view of the foregoing, Applicant believes all claims now pending in this Application are in condition for allowance and an action to that end is respectfully requested.

Further, the Commissioner is hereby authorized to charge any additional fees or credit any overpayment in connection with this paper to Deposit Account No. 20-1430.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 303-571-4000.

Respectfully submitted,

/Daniel J. Sherwinter/

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Electronic Patent Application Fee Transmittal

Application Number:	11744721
Filing Date:	04-May-2007
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Filer:	Daniel Jonah Sherwinter/Sherry Soares
Attorney Docket Number:	026819-000110US

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:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	2801	1	405	405
		Total in USD ($)		**405**

Electronic Acknowledgement Receipt

EFS ID:	9016490
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Daniel Jonah Sherwinter/Sherry Soares
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	026819-000110US
Receipt Date:	13-DEC-2010
Filing Date:	04-MAY-2007
Time Stamp:	09:57:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$405
RAM confirmation Number	7618
Deposit Account	201430
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 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		11744721amendRCE.pdf	216063 2f29665e839c52412d0b35f786712d19b8075a88	yes	18

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Request for Continued Examination (RCE)	1	1
Amendment Submitted/Entered with Filing of CPA/RCE	2	2
Claims	3	13
Applicant Arguments/Remarks Made in an Amendment	14	18

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	30357 e8b0ec829dc034285fc838f047d9a357821acb46	no	2

Warnings:

Information:

Total Files Size (in bytes):	246420

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US	9408

20350 7590 09/30/2010

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EXAMINER	
LEGGETT, ANDREA C.	
ART UNIT	**PAPER NUMBER**
2173	

MAIL DATE	DELIVERY MODE
09/30/2010	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2173	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *13 July 2010*.

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

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

Disposition of Claims

4)☒ Claim(s) *1-19,22,24-28,30,31 and 41-48* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-19,22,24-28,30,31 and 41-48* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

10)☒ The drawing(s) filed on *04 May 2007* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

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

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

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

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

This action is in response to the amendment filed on July 13, 2010. Claims 1, 13, 17-19, 22, 24-25, 27-28, and 30-31 are amended; claims 41-46 are newly added; claims 20-21, 23, 29, and 32-40 are canceled; and claims 1-19, 22, 24-28, 30-31, and 41-48 are pending and have been considered below.

Claim Objections

Claim *9 is* objected to because of the following informalities: the word "authorer" should be --*author*--. Appropriate correction is required.

Claim *42 is* objected to because of the following informalities: the wording "without authenticated" should be --*without authentication*--(line 7). Appropriate correction is required.

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

There are two claims that are numbered 43. The second occurrence has been renumbered 44.

Similarly, there are two claims that are numbered 44. The first occurrence has been renumbered 45. The second occurrence has been renumbered 46

Misnumbered claim 45 has been renumbered 47.

Misnumbered claim 46 has been renumbered 48.

Claim Rejections - 35 USC § 103

The following is a quotation of 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.

Claims **1-2, 5-6, 8-17, 22, 24, 27-28, and 30-31 are** rejected under 35 U.S.C. 103(a) as being unpatentable over **Shibata et al. (U.S. 2005/0152665)** in view of **Land et al. (U.S. 2004/0039934).**

With regard to claim 1, Shibata teaches **a system for handling video cue point**s ([0008]; [0274] – [0248]), **the system comprising**:

an application server ([0070]) **accessible by a remote client terminal over a network** ([0078]; [0112]);

a video server ([0008]; [0248]) **in operative communication with the**

application server ([0070]) **and configured to serve a set of video information indexable by a set of video identifiers** ([0008] - [0009]; [0092] – [0093]);

a cue point server ([0193]; [0247] – [0248]) **in operative communication with at least one of the application server or the video server** ([0008]; [0070]; [0248])**, and configured to serve a set of cue point information** ([0247] – [0248])**; and**

a video environment ([abstract]; [0008]; [0072])

configured to be runnable over the network (Fig. 1) **by the application server** ([0007]; [0070]) **to provide interactivity by the video environment with the set of video information according to data received over the network from the remote client terminal** ([0077] - [0078]),

and

comprising a cue point handler ([0247] – [0248]) **configured to execute at least one of creating, modifying, deleting, or interpreting** ([0009] – [0010]; [0022]; [0024]) **at least a portion of the set of cue point information according to the data received over the network from the client terminal** ([0247] – [0248]). However, Shibata does not teach:

- *the network being a public network*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a**

public network [0370]. Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 2, the limitations are addressed above and Shibata teaches a data store configured to store **([0095])** at least a portion of the set of video information **([0008])** and at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 5, the limitations are addressed above and Shibata teaches wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy **([0004]; [0088]; [0247] – [0248])**.

With regard to claim 6, the limitations are addressed above and Shibata teaches wherein the video environment comprises at least one of a video player or a video editor **([0008] – [0010]; [0085])**.

With regard to claim 8, the limitations are addressed above and Shibata teaches further comprising a comment handler **([0020])** configured to perform at least one of receiving, displaying, or associating comment information **([0020])**, wherein the comment information

comprises at least one of textual, audio, or video information **([0008]; [0020])**, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information **([0008]; [0020]; [0247] – [0248])**.

With regard to claim 9, the limitations are addressed above and Shibata teaches further comprising a video authorer **([0008] – [0009])** configured to communicate with a video creation device **([0003]; [0008])**.

With regard to claim 10, the limitations are addressed above and Shibata teaches wherein the video server is in operative communication with the application server via the network **([0070]; [0112])**.

With regard to claim 11, the limitations are addressed above and Shibata teaches wherein the cue point server is in operative communication with at least one of the application server or the video server via the network **([0008]; [0070]; [0112]; [0248])**.

With regard to claim 12, the limitations are addressed above and Shibata teaches wherein the network is the Intemet **([0078]; [0108])**.

With regard to claim 13, Shibata teaches **a method for handling video cue points** ([0008]; [0247] – [0248]), **the method comprising**:

providing a computer system having at least one computer-readable medium comprising a video editing environment ([abstract]; [0008] – [0010]; [0072]), **and in operative communication with a network** ([0112]);

receiving, at the video editing environment using the computer system, server video data from a set of stored video data ([0008]; [0070]; [0095]);

receiving over the network from a remote client terminal ([0112]), **using the computer system, a set of cue point information** ([0247] – [0248]); **and**

updating a set of cue point associations at the video editing environment ([0247] – [0249]) **with the server video data** ([0008]; [0017]; [0070]; [0095]), **the set of cue point associations being based at least in part on the set of cue point information** ([0247] – [0249]). However, Shibata does not teach:

- *the network being a public network*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370]. Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 14, the limitations are addressed above and Shibata teaches further comprising providing a cue point editing mode **([0009] – [0010]; [0247] – [0248])** configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information **([0009] – [0010]; [0022]; [0024]; [0247] – [0248])**.

With regard to claim 15, the limitations are addressed above and Shibata teaches further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 16, the limitations are addressed above and Shibata teaches further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode **([0112]; [0117]; [0247] – [0248])**, and

transmitting the cue point editing mode after receiving the edit mode entry signal **([0009] - [0010]; [0117])**.

With regard to claim 17, the limitations are addressed above and Shibata teaches further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode ([0112]; [0117]; [0247] – [0248]),

receiving a time position representing the time position within the client video data at which the edit mode entry signal was received ([0070]; [0117]), and

creating a cue point location associated at least in part with the client video data and the time position ([0070]; [0117]; [0247] – [0248]).

However, Shibata does not specifically teach:

- *server video data*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and receiving edit information within the server video data ([0278]; [0280]; [0282] – [0284]). Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 22, the limitations are addressed above and Shibata teaches **wherein the client video data is streamed progressively to a video playback environment** ([0010]) **at the remote client terminal** ([0078]; [0112]), **allowing the video player to begin displaying streamed client video data while remaining client video data continues to be streamed** ([0008]; [0010]; [0070]). However, Shibata does not specifically teach:

- *server video data*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 24, Shibata teaches **a method for handling video cue points** ([0008]; [0247] – [0248]), **the method comprising:**

providing a computer system having at least one computer-readable medium comprising a video playback environment ([0005]; [0008]; [0072]), **and in operative communication with a network** ([0112]);

receiving, using the computer system, server video data from a set of stored video data ([0008]; [0095]);

receiving, using the computer system, a selected cue point over the network from a client terminal, the selected cue point indicating navigation of the client video data according to the client cue point information ([0095]; [0247] – [0248]);

receiving a selected cue point from the set of client cue point information ([0070]; [0247] – [0248]); and

locating, using the computer system, a time position in the client video data based at least in part on the selected cue point (Figs. 14-15, and 18; [0004]; [0008]; [0070]; [0247] – [0248]); and

transmitting, using the computer system, over the network for display to the client terminal (Figs. 14-15; [0112]), **a portion of the client video data** ([0008]; [0070]) **according to the time position** ([0247] – [0248]).

However, Shibata does not disclose:

- *server video data*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 27, the limitations are addressed above and Shibata teaches wherein the video playback environment comprises a video player configured to display video data to the client terminal **([0008]; [0070]; [0085])**.

With regard to claim 28, the limitations are addressed above and Shibata teaches **wherein the client video data is transmitted progressively** ([0010]), **allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted** ([0008]; [0010]). However, Shibata does not disclose:

- *server video data*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it 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 to have modified the client/server relationship as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 30, the limitations are addressed above and Shibata teaches further comprising transmitting over the network **([0112])**, using the computer system, a set of comment data **([0020])**, and

wherein the video playback environment comprises a comment handler **([0020])** configured to perform at least one of displaying at least a portion of the set of comment data on the client terminal or receiving at least a portion of the set of comment data over the network **([0020]; [0070]; [0112])**.

With regard to claim 31, the limitations are addressed above and Shibata teaches **wherein the set of comment data comprises at least one of textual, audio, or video data** ([0008]; [0020]) **at least a portion of which relating to at**

least one of the client video data, the set of client cue point information, or another portion of the set of comment data ([0008]; [0020]; [0070]; [0247] – [0248]). However, Shibata does not disclose:

- *portion of the server video data*
- *server cue point information*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it 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 to have modified the client/server relationship and cue point information as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

Claims **3- 4, 7, 18-19, 25-26, and 41- 48 are** rejected under 35 U.S.C. 103(a) as being unpatentable over **Shibata et al. (U.S. 2005/0152665)** in view of **Land et al. (U.S. 2004/0039934)** and further in view of **Macleod (U.S. 2003/0191691).**

With regard to claims 3 and 4, the limitations are addressed above and Shibata teaches **a database configured to store** ([0095]) **at least a portion of the set of cue point information** ([0247] – [0248]) **in relation to at least a portion of the set of video information** [0008]. However, Shibata and Land do not teach:

- *a relational database*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system [abstract]. Macleod also teaches a **relational database** for a confidential distribution service for one or more products or services [0012]. Therefore, it 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 to have modified the database taught by Shibata and public network taught by Land, to have included a relational database as taught by Macleod, to have achieved storage of video products on a database to efficiently and effectively handle product distribution in a networked environment.

With regard to claim 7, the limitations are addressed above. However, Shibata and Land do not teach:

- *an authentication server configured to authenticate clients of the system*

Macleod teaches **a system that allows a user access to a product or service**

only if invited by an authorized user of the same system [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network taught by Land, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 18, the limitations are addressed above and Shibata teaches **a system for handling video cue points** ([0008]; [0274] – [0248]). However, Shibata and Land do not teach:

- *receiving, over the network, authentication information relating to access authority of the remote client terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the**

distribution service [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network taught by Land, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 19, the limitations are addressed above. However, Shibata and Land do not teach

- *denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the remote client terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network taught by Land, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to

effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 25, the method claim directly corresponds to the method claim 18 respectively, and therefore is rejected with the same rationale.

With regard to claim 26, the method claim directly corresponds to the method claim 19 respectively, and therefore is rejected with the same rationale.

With regard to claim 41, Shibata teaches **a system for handling video cue points** ([0008]; [0274] – [0248]), **the system comprising**:

an application server ([0070]) **accessible by a plurality of remote client terminals** (Fig. 1, 4) **configured to run over a network** ([0078]; [0112]);

a video editing module [abstract] **configured to provide edit interactivity with information according to data received over the network** (Fig. 1, 16) **from a remote client terminal** ([0077] - [0078]). However, Shibata does not teach a public network and server-side-cue-point information.

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video**

data ([0278]; [0280]; [0282] – [0284]). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have modified the client/server relationship and cue point information as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

However, Shibata and Land do not teach:

- *a client authentication module configured to authenticate remote client terminals as editor terminals*

- *configured to allow modification of the server-side cue-point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network and server-side-cue-point information taught by Land, to have included an authentication server taught by Macleod, to have achieved a method of

authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 42, the limitations are addressed above and Shibata teaches **wherein the application server** ([0070]) **is configured further to run, over the network** ([0078]; [0112]); **a video playback module configured to provide playback interactively according to the data received over the network** [abstract]. However, Shibata and Land do not teach:

- *navigate the server-side video information without authenticated of the remote client terminal by the client authentication module as an editor terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network and server-side-cue-point information taught by Land, to have included an authentication server taught by Macleod, to have achieved a method of

authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 43, the limitations are addressed above and Shibata teaches **wherein the video playback module is further configured to provide access to edit interactivity via the video editing module** ([abstract]). However, Shibata does not teach *a public network and server-side-cue-point information*. Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it would have been obvious to have modified the client/server relationship and cue point information as taught by Shibata, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network. However, Shibata and Land do not teach:

- *client terminal is authenticated by the client authentication module as an editor terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of**

users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service [0012]. Therefore, it 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 to have modified the system taught by Shibata and public network and server-side-cue-point information taught by Land, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 44, the limitations are addressed above and Shibata teaches **wherein the video playback module and the video editing module are both communicatively coupled with a client-side data storage system** (Figs. 1-2) **configured to store** ([0095]) **the client-side video information** ([0008) **and the client-side cue-point information** ([0247] – [0248]). However, Shibata does not teach *an authentication module*. Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it would have been obvious to have modified the

system taught by Shibata, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only. However, Shibata and MacLeod do not teach:

- *server-side cue-point information*
- *server-side video information*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it would have been obvious to have modified the client/server relationship as taught by Shibata and authentication module taught by MacLeod, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 45, the limitations are addressed above and Shibata teaches **creation of a cue point, deletion of a cue point, temporal movement of a cue point, edition of a label associated with a cue point, and edition of an association between multiple cue points** (Fig. 18; [0009] – [0010]; [0022]; [0024]). However, Shibata and MacLeod do not teach:

- *server-side cue-point information*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it would have been obvious to have modified the client/server relationship as taught by Shibata and authentication module taught by MacLeod, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 46, the limitations are addressed above and Shibata teaches **wherein the application server** ([0070]) **is configured to run the video editing module** ([0008]; [0248]) **over the network modification** ([0078]; [0112])**so as to provide the edit interactivity according to data received over the network running on the remote client terminal** ([0077] - [0078]; [0112]). However, Shibata does not teach:

- *public network via a standard Internet browser*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a**

public network [0370] as well as an **Internet-enabled server** [0368] and including **Web browsers** ([0102]; [0340]; [0394]). Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 47, the limitations are addressed above. However, Shibata does not teach:

- *public network*
- *without a dedicated client-side application running on the remote client terminal*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] as well as an **Internet-enabled server** [0368] and including **Web browsers** ([0102]; [0340]; [0394]). Additionally, Land teaches **edition without a dedicated client-side application running on the remote client** terminal ([0028]; [0093]; [0275]). Therefore, it 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 to have modified the network taught by Shibata, to have included a public network as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

With regard to claim 48, the limitations are addressed above. However, Shibata and MacLeod do not teach:

- *server-side video information*

Land teaches **a multimedia authoring and playback system and method which include features for creating, editing, and distributing multimedia content** [abstract]. Land also teaches **a server that communicates over a public network** [0370] and **receiving edit information within the server video data** ([0278]; [0280]; [0282] – [0284]). Therefore, it would have been obvious to have modified the client/server relationship as taught by Shibata and authentication module taught by MacLeod, to have included server video data as taught by Land, to have provided video authoring of multimedia content and file access to author and client computers coupled to the network.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

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

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

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.

/A. L./
Andrea Camille Leggett
Examiner, Art Unit 2173
September 25, 2010

/Kieu Vu/
Supervisory Patent Examiner, Art Unit 2173

Notice of References Cited	Application/Control No. 11/744,721	Applicant(s)/Patent Under Reexamination STERNER ET AL.	
	Examiner ANDREA LEGGETT	Art Unit 2173	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2004/0039934	02-2004	Land et al.	713/200
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
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	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
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	27	✓	✓							
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	29	✓	-							
	30	✓	✓							
	31	✓	✓							
	32	✓	-							
	33	✓	-							
	34	✓	-							
	35	✓	-							
	36	✓	-							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	**Art Unit**
	ANDREA LEGGETT	2173

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010	09/25/2010							
	37	✓	-							
	38	✓	-							
	39	✓	-							
	40	✓	-							
	41		✓							
	42		✓							
	43		✓							
	44		✓							
	45		✓							
	46		✓							
	47		✓							
	48		✓							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

SEARCHED			
Class	Subclass	Date	Examiner
715	716	3/17/2010	A.L.
715	723	3/17/2010	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search	3/17/2010	A.L.
PLUS Search (see in eDan)	3/17/2010	A.L.
Inventor Name Search (EAST)	3/17/2010	A.L.
EAST Search	9/25/2010	A.L.

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/ANDREA LEGGETT/ Examiner.Art Unit 2173	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	39	video edit$9 module	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/09/25 16:50
S1	2	((CHRISTIAN) near2 (STERNER)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:54
S2	2	((HAIDER) near2 (ZAINY)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S3	1	((PHILIP) near2 (DIGIULIO)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S4	2	wellcomemat.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:56
S5	3	(("20070250899") or ("20040039934") or ("20050152665")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:09
S6	4	(("20070250899") or ("20040039934") or ("20050152665") or ("20030191691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:35
S7	1234	"715/716".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:10
S8	905	"715/723".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:21

EAST Search History (Interference)

< This search history is empty>

9/25/2010 4:59:23 PM
C:\Documents and Settings\aleggett\My Documents\EAST\Workspaces\11-744721.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US	9408

20350 7590 07/14/2010

TOWNSEND AND TOWNSEND AND CREW, LLP
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EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

EXAMINER	
LEGGETT, ANDREA C.	
ART UNIT	**PAPER NUMBER**
2173	

MAIL DATE	DELIVERY MODE
07/14/2010	PAPER

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.

Interview Summary	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2173	

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

(1) *ANDREA LEGGETT*. (3)*Chrstian Sterner*.

(2) *Daniel Sherwinter*. (4)_____.

Date of Interview: *09 July 2010*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *1*.

Identification of prior art discussed: *Shibata (U.S. 2005/0152665)*.

Agreement with respect to the claims f)☐ was reached. g)☒ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Applicant explained invention and discussion of claim 1 took place. Examiner pointed out that the proposed amendment, particularly the limitation "the network being a public network", is not taught in the Shibata reference.*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/ANDREA LEGGETT/ Examiner, Art Unit 2173	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

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

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

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

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

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

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

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

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

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

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

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

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

Examiner to Check for Accuracy

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

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on July 13, 2010.

TOWNSEND and TOWNSEND and CREW LLP

By: /Stephanie Klepp/
Stephanie Klepp

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No. 9408
Christian A. Sterner	Examiner: Andrea C. Leggett
Application No.: 11/744,721	Technology Center/Art Unit: 2173
Filed: May 4, 2007	AMENDMENT
For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE	
Customer No.: 20350	

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

Commissioner:

In response to the Office Action mailed March 26, 2010, please enter the following amendments and remarks:

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

Remarks/Arguments begin on page 10 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended) A system for handling video cue points, the system comprising:

an application server **accessible by a remote client terminal over** ~~**in operative communication with**~~ a network**, the network being a public network**;

a video server in operative communication with the application server and configured to serve a set of video information indexable by a set of video identifiers;

a cue point server in operative communication with at least one of the application server or the video server, and configured to serve a set of cue point information; and

a video environment

configured to be runnable **over the network** by the application server **to provide interactivity by the video environment with the set of video information according to data received over the network from the remote client terminal**,

~~**configured to receive data over the network relating to interactions with a client terminal,**~~ and

comprising a cue point handler configured to execute at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information **according to the data received over the network from the client terminal**.

2. (Original) The system of claim 1, further comprising a data store configured to store at least a portion of the set of video information and at least a portion of the set of cue point information.

3. (Original) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least a portion of the set of video information.

4. (Original) The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least another portion of the set of cue point information.

5. (Original) The system of claim 1, wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy.

6. (Original) The system of claim 1, wherein the video environment comprises at least one of a video player or a video editor.

7. (Original) The system of claim 1, further comprising an authentication server configured to authenticate clients of the system.

8. (Original) The system of claim 1, further comprising a comment handler configured to perform at least one of receiving, displaying, or associating comment information, wherein the comment information

comprises at least one of textual, audio, or video information, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information.

9. (Original) The system of claim 1, further comprising a video authorer configured to communicate with a video creation device.

10. (Original) The system of claim 1, wherein the video server is in operative communication with the application server via the network.

11. (Original) The system of claim 1, wherein the cue point server is in operative communication with at least one of the application server or the video server via the network.

12. (Original) The system of claim 1, wherein the network is the Internet.

13. (Currently Amended) A method for handling video cue points, the method comprising:

providing a computer system having at least one computer-readable medium comprising a video editing environment, and in operative communication with a network**, the network being a public network**;

receiving, **at the video editing environment** using the computer system, server video data from a set of stored video data;

~~**transmitting over the network, using the computer system, a set of client video data based at least in part on the set of server video data;**~~

receiving over the network **from a remote client terminal**, using the computer system, a set of cue point information; and

updating a set of cue point associations **at the video editing environment** with ~~**at least one of the client video data,**~~ the server video data, ~~**or the stored video data,**~~ the set of cue point associations being based at least in part on the set of cue point information.

14. (Original) The method of claim 13, further comprising providing a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information.

15. (Original) The method of claim 13, further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information.

16. (Original) The method of claim 14, further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode, and

transmitting the cue point editing mode after receiving the edit mode

17. (Currently Amended) The method of claim 14, further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode,

receiving a time position representing the time position within the ~~client~~ **server** video data at which the edit mode entry signal was received, and

creating a cue point location associated at least in part with the ~~client~~ **server** video data and the time position.

18. (Currently Amended) The method of claim 13, further comprising receiving, over the network, authentication information relating to access authority of [[a]] **the remote** client terminal.

19. (Currently Amended) The method of claim 18, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the **remote** client terminal.

20. – 21. (Canceled)

22. (Currently Amended) The method of claim [[21]] **13**, wherein the ~~client~~ **server** video data is ~~transmitted~~ **streamed** progressively **to a video playback environment at the remote client terminal**, allowing the video player to begin displaying ~~transmitted client~~ **streamed server** video data while remaining ~~client~~ **server** video data continues to be ~~transmitted~~ **streamed**.

23. (Canceled)

24. (Currently Amended) A method for handling video cue points, the method comprising:

providing a computer system having at least one computer-readable medium comprising a video playback environment, and

in operative communication with a network**, the network being a public network**;

receiving, using the computer system, server video data from a set of stored video data;

receiving, using the computer system, server cue point information from a set of stored cue point information;

~~**transmitting over the network, using the computer system, a set of client video data, at least part of which being based on the set of server video data, and playable on a client terminal;**~~

~~**transmitting over the network, using the computer system, a set of client cue point information, at least part of which being based on the set of server cue point information, and selectable by the client terminal;**~~

receiving**, using the computer system,** a selected cue point **over the network from a client terminal, the selected cue point indicating navigation of the server video data according to the server cue point information** ~~**from the set of client cue point information**~~; ~~**and**~~

locating**, using the computer system,** a time position in the ~~**client**~~ **server** video data based at least in part on the selected cue point**; and**

transmitting, using the computer system, over the network for display to the client terminal, a portion of the server video data according to the time position.

25. (Currently Amended) The method of claim 24, further comprising receiving, over the network, authentication information relating to access authority of [[a]] **the** client terminal.

26. (Original) The method of claim 25, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

27. (Currently Amended) The method of claim 24, wherein the video playback environment comprises a video player configured to display video data ~~on a~~ **to the** client terminal.

28. (Currently Amended) The method of claim 27, wherein the ~~client video data~~ **portion of the server video data** is transmitted progressively, allowing the video player to begin displaying transmitted client video data while remaining ~~client~~ **server** video data continues to be transmitted.

29. (Canceled)

30. (Currently Amended) The method of claim 24, further comprising transmitting over the network, using the computer system, a set of comment data, and

wherein the video playback environment comprises a comment handler configured to perform at least one of displaying at least a portion of the set of comment data on [[a]] **the** client terminal or receiving at least a portion of the set of comment data over the network.

31. (Currently Amended) The method of claim 30, wherein the set of comment data comprises at least one of textual, audio, or video data at least a portion of which relating to at least one of the ~~client~~ **portion of the server** video data, the ~~set of client~~ **server** cue point information, or another portion of the set of comment data.

32. – 40. (Canceled)

41. (New) A system for handling video cue points, the system comprising:

an application server accessible by a plurality of remote client terminals over a public network and configured to run, over the public network:

a client authentication module configured to authenticate remote client terminals as editor terminals; and

a video editing module configured to provide edit interactivity with server-side video information and server-side cue-point information according to data received over the public network from a remote client terminal, the edit interactivity with the server-side cue-point information configured to allow modification of the server-side cue-point information only when the remote client terminal is authenticated by the client authentication module as an editor terminal.

42. (New) The system of claim 41, wherein the application server configured further to run, over the public network:

a video playback module configured to provide playback interactivity with the server-side video information and the server-side cue-point information according to data received over the public network from the remote client terminal, the playback interactivity with the server-side cue-point information configured to allow use of the server-side cue-point information to navigate the server-side video information without authenticated of the remote client terminal by the client authentication module as an editor terminal.

43. (New) The system of claim 42, wherein the video playback module is further configured to provide access to edit interactivity via the video editing module when the remote client terminal is authenticated by the client authentication module as an editor terminal.

43. (New) The system of claim 42, wherein the video playback module and the video editing module are both communicatively coupled with a server-side data storage system configured to store the server-side video information and the server-side cue-point information.

44. (New) The system of claim 41, wherein modification of the server-side cue-point information comprises creation of a cue point, deletion of a cue point, temporal movement of a cue point, edition of a label associated with a cue point, and edition of an association between multiple cue points.

44. (New) The system of claim 41, wherein the application server is configured to run the video editing module over the public network modification, so as to provide the edit interactivity according to data received over the public network via a standard Internet browser running on the remote client terminal.

45. (New) The system of claim 41, wherein the application server is configured to run the video editing module over the public network modification, so as to provide the edit interactivity without a dedicated client-side application running on the remote client terminal.

46. (New) The system of claim 41, wherein the application server is configured to run the video editing module over the public network modification, so as to provide the edit interactivity without downloading the server-side video information to the remote client terminal.

REMARKS/ARGUMENTS

Interview

Applicants and the undersigned thank Examiner Leggett for her courtesy and consideration in discussing this Application in a telephone interview on July 9, 2010. The independent claims and other novel aspects were discussed primarily in the context of the Shibata reference. After a brief discussion of the intended claim scope and a review of the Shibata reference, Examiner Legget agreed with Applicants that aspects of the invention are not taught by Shibata. Applicants agreed to make certain amendments to the claims to more clearly identify some of those differences for the sake of furthering prosecution.

Applicants submitted draft amendments to Examiner Leggett, which were discussed by phone on July 12, 2010. During that conversation, it was agreed that, pending an updated search, these amendments would place this Application in condition for allowance.

Status of the Claims

Before this Amendment, claims 1 – 40 were present for examination. Claims 1, 13, 17 – 19, 22, 24, 25, 27, 28, 30, and 31 are amended. Claims 20, 21, 23, 29, and 32 – 40 are canceled; and new claims 41 – 46 are added. Therefore, claims 1 – 19, 22, 24 – 28, 30, 31, and 41 – 46 are present for examination, and claims 1, 13, 24, and 41 are the independent claims. No new matter is added by these amendments. Applicants respectfully request reconsideration of this Application as amended.

The Office Action dated March 26, 2010 ("Office Action") rejected claims 1 – 2, 5 – 6, 8 – 17, 20 – 24, 27 – 33, and 35 – 40 under 35 U.S.C. §102(e) as being anticipated by the cited portions of Shibata et al., U.S. Publication No. 2005/0152665 ("Shibata"). The Office Action rejected claims 3 – 4, 7, 18 – 19, 25 – 26, and 34 under 35 U.S.C. §103(a) as being unpatentable over Shibata, in view of the cited portions of Macleod, U.S. Publication No. 2003/0191691 ("Macleod"). Applicants respectfully request reconsideration for the reasons that follow.

35 U.S.C. §102 Rejections

The Office Action rejected independent claims 1, 13, and 24 under 35 U.S.C. §102 as anticipated by Shibata. The Federal Circuit recently reaffirmed that "unless a reference discloses within the four corners of the document not only all of the limitations claimed but also all of the limitations arranged or combined in the same way as recited in the claim, it cannot be said to ... anticipate under 35 U.S.C. § 102." Net MoneyIn v. Verisign (Fed. Cir. 10/20/08). Applicants, however, believe that Shibata fails to teach or suggest all the limitations arranged or combined in the same way as recited in the independent claims.

Specifically, Shibata cannot be relied upon to teach or suggest at least "an application server accessible by a remote client terminal over ... a public network [and configured to run] ... a video environment configured to ... provide interactivity by the video environment with the set of video information according to data received over the network from the remote client terminal, as generally recited by independent claims 1, 13, 24, and 41. During the interviews discussed above, Examiner agreed that these recitations are not taught or suggested by Shibata.

For example, Shibata generally describes video recording and editing environments that allow for use of mark data (construed by the Office Action as cue point information) in the editing process. Shibata does not appear to contemplate a server video editing and/or playback environment on a public network architecture, like the Internet (e.g., a cloud computing architecture). Indeed, portions of Shibata do discuss a network architecture, but apparently only as a private peer-to-peer or client-server network architecture (*see, e.g.*, Shibata, ¶ [0070]). Further, it is clear throughout Shibata that edition and use of mark data is performed only with a client-side application, for example, running on either a video recording client or a video editing client.

For at least these reasons, Shibata fails to teach or suggest the recitations of claims 1, 13, 24, and 41. Further, the Office Action does not provide any teaching from other art or reason why these recitations would be within the knowledge of a person of ordinary skill in

the art. As such, the Office Action fails to establish a *prima facie* case of anticipation (or obviousness) as to the independent claims. Moreover, claims 2 – 12, 14 – 19, 22, 25 – 28, 30, 31, and 42 – 46 are believed allowable at least for reasons of their dependence from allowable base claims. Applicants, therefore, respectfully request that the §102 and §103 rejections to all the claims be withdrawn.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 303-571-4000.

Respectfully submitted,



Daniel J. Sherwinter
Reg. No. 61,751

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D6S:s5k
62768636 v1

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) **FY 2009** *(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)*	Docket Number (Optional) 026819-000110US
Application Number 11/744,721	Filed May 4, 2007
For METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE	
Art Unit 2173	Examiner Andrea C. Leggett

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	
☒ One month (37 CFR 1.17(a)(1))	$130	$65	$ 65
☐ Two months (37 CFR 1.17(a)(2))	$490	$245	$
☐ Three months (37 CFR 1.17(a)(3))	$1110	$555	$
☐ Four months (37 CFR 1.17(a)(4))	$1730	$865	$
☐ Five months (37 CFR 1.17(a)(5))	$2350	$1175	$

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 20-1430.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

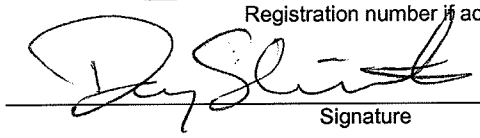
I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 61,751

☐ attorney or agent under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34 _____



Signature

July 13, 2010
Date

Daniel J. Sherwinter, Reg. No. 61,751
Typed or printed name

303.571.4000
Telephone Number

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of _____ forms are submitted.

62769714 v1

Electronic Patent Application Fee Transmittal

Application Number:	11744721
Filing Date:	04-May-2007
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Filer:	Daniel Jonah Sherwinter/Stephanie Klepp
Attorney Docket Number:	026819-000110US

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:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 1 month with $0 paid	2251	1	65	65

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**65**

Electronic Acknowledgement Receipt

EFS ID:	8005148
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Daniel Jonah Sherwinter/Stephanie Klepp
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	026819-000110US
Receipt Date:	13-JUL-2010
Filing Date:	04-MAY-2007
Time Stamp:	15:34:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$65
RAM confirmation Number	1886
Deposit Account	201430
Authorized User	

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

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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

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

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		026819_000110US_Amendment_12_July_2010.pdf	508000 0e3b12cbb691e2f0145683945cb85728e4db2c2c	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	9
	Applicant Arguments/Remarks Made in an Amendment	10	12

Warnings:

Information:

2	Extension of Time	026819_000110US_Ext_12_July_2010.pdf	54656 9b7417e65d43254b9fb31285d9e9659768d05193	no	1

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30283 07fe5b658c45ea8c10adb1b861a4c434e85c86c7	no	2

Warnings:

Information:

Total Files Size (in bytes):	592939

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 (07-06)
Approved for use through 1/31/2007. 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 displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/744,721	05/04/2007	

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY ☒ RATE ($)	SMALL ENTITY ☒ FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	07/13/2010	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 35	Minus	** 40	= 0	X $26 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/AJAY R. DAVID/

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US	9408

20350 7590 03/26/2010

TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2173	

MAIL DATE	DELIVERY MODE
03/26/2010	PAPER

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.

Office Action Summary	Application No.	Applicant(s)	
	11/744,721	STERNER ET AL.	
	Examiner	Art Unit	
	ANDREA LEGGETT	2173	

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

Period for Reply

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

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

Status

1)☒ Responsive to communication(s) filed on *04 May 2007*.

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

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

Disposition of Claims

4)☒ Claim(s) *1-40* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-40* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

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

10)☒ The drawing(s) filed on *04 May 2007* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

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

a)☐ All b)☐ Some * c)☐ None of:

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

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

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

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

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5-28-09, 7-17-08, 8-13-07*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

Claim *9 is* objected to because of the following informalities: the word "authorer" should be --*author*--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims **1-2, 5-6, 8-17, 20-24, 27-33, and 35-40 are** rejected under 35 U.S.C. 102(**e**) as being anticipated by **Shibata et al. (U.S. 2005/0152665)**.

With regard to claim 1, Shibata teaches a system for handling video cue points **([0008]; [0274] – [0248])**, the system comprising:

an application server **([0070])** in operative communication with a network **([0112])**;

a video server **([0008]; [0248])** in operative communication with the application server **([0070])** and configured to serve a set of video information

indexable by a set of video identifiers **([0008] - [0009]; [0092] – [0093])**;

a cue point server **([0193]; [0247] – [0248])** in operative communication with at least one of the application server or the video server **([0008]; [0070]; [0248])**, and configured to serve a set of cue point information **([0247] – [0248])**; and

a video environment **([abstract]; [0008]; [0072])**

configured to be runnable by the application server **([0007]; [0070])**,

configured to receive data over the network relating to interactions with a client terminal **([0112]; [0070])**, and

comprising a cue point handler **([0247] – [0248])** configured to execute at least one of creating, modifying, deleting, or interpreting **([0009] – [0010]; [0022]; [0024])** at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 2, Shibata teaches the limitations of claim 1 further comprising a data store configured to store **([0095])** at least a portion of the set of video information **([0008])** and at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 5, Shibata teaches the limitations of claim 1 wherein the cue point information substantially defines at least one of a metatag, a cue point

name, a cue point time position, or a cue point hierarchy **([0004]; [0088]; [0247] – [0248])**.

With regard to claim 6, Shibata teaches the limitations of claim 1 wherein the video environment comprises at least one of a video player or a video editor **([0008] – [0010]; [0085])**.

With regard to claim 8, Shibata teaches the limitations of claim 1 further comprising a comment handler **([0020])** configured to perform at least one of receiving, displaying, or associating comment information **([0020])**, wherein the comment information

comprises at least one of textual, audio, or video information **([0008]; [0020])**, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information **([0008]; [0020]; [0247] – [0248])**.

With regard to claim 9, Shibata teaches the limitations of claim 1 further comprising a video authorer **([0008] – [0009])** configured to communicate with a video creation device **([0003]; [0008])**.

With regard to claim 10, Shibata teaches the limitations of claim 1 wherein the video server is in operative communication with the application server via the network **([0070]; [0112])**.

With regard to claim 11, Shibata teaches the limitations of claim 1 wherein the cue point server is in operative communication with at least one of the application server or the video server via the network **([0008]; [0070]; [0112]; [0248])**.

With regard to claim 12, Shibata teaches the limitations of claim 1 wherein the network is the Intemet **([0078]; [0108])**.

With regard to claim 13, Shibata teaches a method for handling video cue points **([0008]; [0247] – [0248])**, the method comprising:

providing a computer system

having at least one computer-readable medium comprising a video editing environment **([abstract]; [0008] – [0010]; [0072])**, and

in operative communication with a network **([0112])**;

receiving, using the computer system, server video data from a set of stored video data **([0008]; [0070]; [0095])**;

transmitting over the network **([0112])**, using the computer system, a set of client video data **([0008]; [0070])** based at least in part on the set of server video data **([0008]; [0070])**;

receiving over the network **([0112])**, using the computer system, a set of cue point information **([0247] – [0248])**; and

updating a set of cue point associations **([0247] – [0249])** with at least one of the client video data, the server video data, or the stored video data **([0008]; [0017]; [0070]; [0095])**, the set of cue point associations being based at least in part on the set of cue point information **([0247] – [0249])**.

With regard to claim 14, Shibata teaches the limitations of claim 13 further comprising providing a cue point editing mode **([0009] – [0010]; [0247] – [0248])** configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information **([0009] – [0010]; [0022]; [0024]; [0247] – [0248])**.

With regard to claim 15, Shibata teaches the limitations of claim 13 further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information **([0247] – [0248])**.

With regard to claim 16, Shibata teaches the limitations of claim 14 further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode **([0112]; [0117]; [0247] – [0248])**, and

transmitting the cue point editing mode after receiving the edit mode entry signal **([0009] - [0010]; [0117])**.

With regard to claim 17, Shibata teaches the limitations of claim 14 further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode **([0112]; [0117]; [0247] – [0248])**,

receiving a time position representing the time position within the client video data at which the edit mode entry signal was received **([0004]; [0008]; [0070]; [0117])**, and

creating a cue point location associated at least in part with the client video data and the time position **([0004]; [0008]; [0070]; [0117]; [0247] – [0248])**.

With regard to claim 20, Shibata teaches the limitations of claim 13 wherein the video editing environment comprises a server-level video editor **([0008] – [0010]; [0070])**.

With regard to claim 21, Shibata teaches the limitations of claim 13 wherein the client video data is transmitted to a video player configured to display video data on a client terminal **([0008]; [0070]; [0085])**.

With regard to claim 22, Shibata teaches the limitations of claim 21 wherein the client video data is transmitted progressively **([0010])**, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted **([0008]; [0010]; [0070])**.

With regard to claim 23, Shibata teaches the limitations of claim 13 wherein at least a portion of the server video data is received over the network **([0112])**.

With regard to claim 24, Shibata teaches a method for handling video cue points **([0008]; [0247] – [0248])**, the method comprising:

providing a computer system

having at least one computer-readable medium comprising a video playback environment **([0005]; [0008]; [0072])**, and

in operative communication with a network **([0112])**;

receiving, using the computer system, server video data from a set of stored video data **([0008]; [0095])**;

receiving, using the computer system, server cue point information from a set of stored cue point information **([0095]; [0247] – [0248])**;

transmitting over the network **([0112])**, using the computer system, a set of client video data **([0008]; [0070])**, at least part of which being

based on the set of server video data **([0008])**, and

playable on a client terminal **([0070])**;

transmitting over the network **([0112])**, using the computer system, a set of client cue point information **([0070]; [0247] – [0248])**, at least part of which being

based on the set of server cue point information **([0247] – [0248])**,

and selectable by the client terminal **([0070])**;

receiving a selected cue point from the set of client cue point information **([0070]; [0247] – [0248])**; and

locating a time position in the client video data based at least in part on the selected cue point **([0004]; [0008]; [0070]; [0247] – [0248])**.

With regard to claim 27, Shibata teaches the limitations of claim 24 wherein the video playback environment comprises a video player configured to display video data on a client terminal **([0008]; [0070]; [0085])**.

With regard to claim 28, Shibata teaches the limitations of claim 27 wherein the client video data is transmitted progressively **([0010])**, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted **([0008]; [0010])**.

With regard to claim 29, Shibata teaches the limitations of claim 27 wherein the client video data is transmitted progressively **([0010])** beginning from the time position in the client video data based at least in part on the selected cue point **([0247] – [0248])**, allowing the video player to begin displaying transmitted client

video data from the time position while remaining client video data continues to be transmitted **([0008]; [0010])**.

With regard to claim 30, Shibata teaches the limitations of claim 24 further comprising transmitting over the network **([0112])**, using the computer system, a set of comment data **([0020])**, and

wherein the video playback environment comprises a comment handler **([0020])** configured to perform at least one of displaying at least a portion of the set of comment data on a client terminal or receiving at least a portion of the set of comment data over the network **([0020]; [0070]; [0112])**.

With regard to claim 31, Shibata teaches the limitations of claim 30 wherein the set of comment data comprises at least one of textual, audio, or video data **([0008]; [0020])** at least a portion of which relating to at least one of the client video data, the set of client cue point information, or another portion of the set of comment data **([0008]; [0020]; [0070]; [0247] – [0248])**.

With regard to claim 32, Shibata teaches the limitations of claim 24 wherein at least a portion of the server video data is received over the network **([0008]; [0112])**.

With regard to claim 33, Shibata teaches a method for handling video cue points **([0008]; [0247] – [0248])**, the method comprising:

accessing, over a network **([0112])** and using a client terminal **([0070])**, a host computer system comprising a video environment **([abstract]; [0008]; [0072])**, the video environment comprising

a video handler configured to transmit video data over the network **([0008]; [0112])**,

and

a cue point handler configured to transmit cue point information over the network **([0112]; [0247] – [0248])**, at least part of the cue point information being related to at least part of the transmitted video data **([0008]; [0010])**; and

interacting with at least part of the set of cue point information using the client terminal **([0070])**.

With regard to claim 35, Shibata teaches the limitations of claim 33 wherein the video environment comprises at least one of a video editing environment or a video playback environment **([abstract]; [0005]; [0008] – [0010]; [0072])**.

With regard to claim 36, Shibata teaches the limitations of claim 33 further comprising accessing a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information **([0009] – [0010]; [0022]; [0024]; [0247] – [0248])**.

With regard to claim 37, Shibata teaches the limitations of claim 33 further comprising accessing a cue point editing mode by pausing playback of the client video data **([0005]; [0008] – [0010]; [0070]; [0247] – [0248])**.

With regard to claim 38, Shibata teaches the limitations of claim 33 further comprising

accessing a cue point editing mode by pausing playback of the client video data at a time position **([0004] - [0005]; [0008]; [0070])**, and

creating a cue point location associated at least in part with the client video data and the time position **([0004]; [0008]; [0070]; [0247] – [0248])**.

With regard to claim 39, Shibata teaches the limitations of claim 33 wherein the interacting step comprises performing at least one of creating, modifying, deleting, or interpreting a portion of the set of cue point information **([0009] – [0010]; [0022]; [0024]; [0247] – [0248])**.

With regard to claim 40, Shibata teaches the limitations of claim 33 wherein the video environment comprises a video authoring environment **([abstract]; [0072])** configured to interface with a video creation device **([0003]; [0008])**, and the method further comprises uploading video data using the video authoring

environment **([abstract]; [0008]; [0072])**.

Claim Rejections - 35 USC § 103

The following is a quotation of 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.

Claims **3-4, 7, 18-19, 25-26, and 34 are** rejected under 35 U.S.C. 103(a) as being unpatentable over **Shibata et al. (U.S. 2005/0152665)** in view of **Macleod (U.S. 2003/0191691).**

With regard to claims 3 and 4, the limitations are addressed above and Shibata teaches **a database configured to store** ([0095]) **at least a portion of the set of cue point information** ([0247] – [0248]) **in relation to at least a portion of the set of video information** [0008]. However, Shibata does not teach:

- *a relational database*

Macleod teaches a system that allows a user access to a product or service only if invited by an authorized user of the same system [abstract]. Macleod also teaches a **relational database** for a confidential distribution service for one or more products or services [0012]. Therefore, it 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 to have modified the database taught by Shibata, to have included a relational database as taught by Macleod, to have achieved storage of video products on a database to efficiently and effectively handle product distribution in a networked environment.

With regard to claim 7, the limitations are addressed above and Shibata teaches **a system for handling video cue points** ([0008]; [0274] – [0248]). However, Shibata does not teach:

- *an authentication server configured to authenticate clients of the system*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata, to have included an authentication server taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 18, the limitations are addressed above and Shibata teaches **a system for handling video cue points** ([0008]; [0274] – [0248]). However, Shibata does not teach:

- *receiving, over the network, authentication information relating to access authority of a client terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 19, the limitations are addressed above and Shibata teaches **a system for handling video cue points** ([0008]; [0274] – [0248]) as well as **a video environment** ([abstract]; [0008]; [0072]). However, Shibata does not teach:

- *denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the client terminal*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

With regard to claim 25, the method claim directly corresponds to the method claim 18 respectively, and therefore is rejected with the same rationale.

With regard to claim 26, the method claim directly corresponds to the method claim 19 respectively, and therefore is rejected with the same rationale.

With regard to claim 34, the limitations are addressed above and Shibata teaches **a host computer system comprising a video environment ([abstract]; [0008]; [0072])**. However, Shibata does not teach:

- *transmitting client authentication information over the network to the host computer system*

Macleod teaches **a system that allows a user access to a product or service only if invited by an authorized user of the same system** [abstract]. Macleod also teaches **distribution service that serves to authenticate the identities of users and relate them in the database to the identities of the users by whom they have been invited, a security system being provided by the distribution service** [0012]. Therefore, it 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 to have modified the system taught by Shibata, to have included the method of authenticating users as taught by Macleod, to have achieved a method of authenticating users to effectively handle video product distribution in a networked environment available to authorized users only.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

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.

/A. L./
Andrea Camille Leggett
Examiner, Art Unit 2173
March 17, 2010

/Kieu Vu/
Supervisory Patent Examiner, Art Unit 2173

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	11/744,721
Filing Date	May 4, 2007
First Named Inventor	Sterner, Christian A.
Art Unit	2621
Examiner Name	
Attorney Docket Number	026819-000110US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-			
	AB	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	AC					☐
	AD					☐

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BA	http://www.veotag.com, 8-6-2007.	☐
	BB	http://www.viddler.com, 8-6-2007.	☐
	BC	http://www.motionbox.com, 8-6-2007.	☐
	BD	http://www.vsocial.com, 8-6-2007.	☐
	BE	http://www.zentation.com, 8-6-2007.	
	BF	http://www.cooltoors.com, 8-6-2007.	

Examiner Signature	/Andrea Leggett/	Date Considered	03/16/2010

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

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

61123196 v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010								
	1	✓								
	2	✓								
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	34	✓								
	35	✓								
	36	✓								

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	Examiner	Art Unit
	ANDREA LEGGETT	2173

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/17/2010								
	37	✓								
	38	✓								
	39	✓								
	40	✓								

PTO/SB/08b (04-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	11/744,721
				Filing Date	May 4, 2007
				First Named Inventor	Sterner, Christian A.
				Art Unit	2173
(Use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	026819-000110US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2007/0250899 A1	10-25-2007	Rhodes et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
						☐

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
			☐

Examiner Signature	/Andrea Leggett/	Date Considered	03/16/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

61976759 v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

PTO/SB/08B (01-08)

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	11/744,721
				Filing Date	May 4, 2007
				First Named Inventor	Sterner, Christian A.
				Art Unit	2173
(Use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	026819-000110US

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	AA	US-2003/0191691 A1	10-09-2003	Macleod	
	AB	US-2004/0039934 A1	02-26-2004	Land et al.	
	AC	US-2005/0152665 A1	07-14-2005	Shibata et al.	
	AD	US-			

FOREIGN PATENT DOCUMENTS

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	AE					☐

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BA		☐

Examiner Signature	/Andrea Leggett/	Date Considered	03/16/2010

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

61417515 v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

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BIB DATA SHEET

CONFIRMATION NO. 9408

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/744,721	05/04/2007 RULE	715 ~~386~~	2173	026819-000110US

APPLICANTS

Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

**** CONTINUING DATA ************************** Yes

This appln claims benefit of 60/746,645 05/07/2006

**** FOREIGN APPLICATIONS ************************** No

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Yes ☑ No	/ANDREA C. LEGGETT/ Examiner's Signature	☐ Initials	CO	28	40	4

ADDRESS

TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834
UNITED STATES

TITLE

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

FILING FEE RECEIVED		
1090	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1234	"715/716".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:10
L3	905	"715/723".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/17 09:21
S1	2	((CHRISTIAN) near2 (STERNER)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:54
S2	2	((HAIDER) near2 (ZAINY)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S3	1	((PHILIP) near2 (DIGIULIO)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:55
S4	2	wellcomemat.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/16 10:56
S5	3	(("20070250899") or ("20040039934") or ("20050152665")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:09
S6	4	(("20070250899") or ("20040039934") or ("20050152665") or ("20030191691")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/16 11:35

3/17/2010 9:29:40 AM
C:\Documents and Settings\aleggett\My Documents\EAST\Workspaces\11-744721.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11744721	STERNER ET AL.
	Examiner	Art Unit
	ANDREA LEGGETT	2173

SEARCHED			
Class	Subclass	Date	Examiner
715	716	3/17/2010	A.L.
715	723	3/17/2010	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search	3/17/2010	A.L.
PLUS Search (see in eDan)	3/17/2010	A.L.
Inventor Name Search (EAST)	3/17/2010	A.L.

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/ANDREA LEGGETT/ Examiner.Art Unit 2173	

PLUS Search Results for S/N 11744721, Searched Tue Mar 16 10:54:12 EDT 2010

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

20070263984 99
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	11/744,721
				Filing Date	May 4, 2007
				First Named Inventor	Sterner, Christian A.
				Art Unit	2173
(Use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	026819-000110US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2007/0250899 A1	10-25-2007	Rhodes et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
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Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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Examiner Signature		Date Considered	

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[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Electronic Acknowledgement Receipt

EFS ID:	5416385
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Daniel Jonah Sherwinter/Stephanie Klepp
Filer Authorized By:	Daniel Jonah Sherwinter
Attorney Docket Number:	026819-000110US
Receipt Date:	28-MAY-2009
Filing Date:	04-MAY-2007
Time Stamp:	18:27:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		026819_000110US_IDS_28_May_2009.pdf	107261 9534b7c60cba1267fc731ed896e78afbd7e24811	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Filed (SB/08)	3	3
Warnings:			
Information:			
	Total Files Size (in bytes):	107261	

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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.

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on May 28, 2009.

TOWNSEND and TOWNSEND and CREW LLP

By: / Stephanie Klepp /
Stephanie Klepp

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Christian A. Sterner Application No.: 11/744,721 Filed: May 4, 2007 For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE Customer No.: 20350	Confirmation No.: 9408 Examiner: Art Unit: 2173 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
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Commissioner:

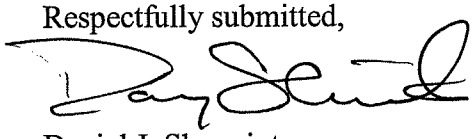
The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are not enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Daniel J. Sherwinter
Reg. No. 61,751

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 303-571-4321
D6S:s5k
61976759 v1

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on 07/18/08.

TOWNSEND and TOWNSEND and CREW LLP

By: /Breann M. McNeil/

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Christian A. Sterner Application No.: 11/744,721 Filed: May 4, 2007 For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE Customer No.: 20350	Confirmation No.: 9408 Examiner: *Not yet known* Art Unit: 2173 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

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

Sir or Madam:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are not enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Also enclosed is a copy of the Search/Examination report corresponding to the PCT application.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

/Darin J. Gibby/

Darin J. Gibby
Reg. No. 38,464

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San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 303-571-4321
DJG:bmm
61417515 v1

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	11/744,721
				Filing Date	May 4, 2007
				First Named Inventor	Sterner, Christian A.
				Art Unit	2173
(Use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	026819-000110US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2003/0191691 A1	10-09-2003	Macleod	
	AB	US-2004/0039934 A1	02-26-2004	Land et al.	
	AC	US-2005/0152665 A1	07-14-2005	Shibata et al.	
	AD	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
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Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BA		☐

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

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Electronic Acknowledgement Receipt

EFS ID:	3617433
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Darin J. Gibby/Breann McNeil
Filer Authorized By:	Darin J. Gibby
Attorney Docket Number:	026819-000110US
Receipt Date:	17-JUL-2008
Filing Date:	04-MAY-2007
Time Stamp:	16:35:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	SRWO.pdf	923052 b53a306600de68c914a413a526b5e3ba43116d2e	no	14

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Information:	

2		IDS110.pdf	145471 297e715597dfce8a14c4324f11d287b032b5eb66	yes	3

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Information Disclosure Statement Letter	1	2
Information Disclosure Statement (IDS) Filed	3	3

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Information:	
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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
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA94111-3834

Title: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Publication No. US-2007-0294622-A1
Publication Date: 12/20/2007

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.

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

Pre-Grant Publication Division, 703-605-4283

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

OC000000026249334

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

Date Mailed: 10/11/2007

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/02/2007.

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.

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199
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PTO/SB/81 (01-08)

POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM

Application Number	11/744,721
Filing Date	May 4, 2007
First Named Inventor	Stemer, Christian A.
Title	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
Art Unit	2621
Examiner Name	
Attorney Docket Number	026819-000110US

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number: **20350**

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

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☐ Firm or Individual Name			
Address			
City		State	Zip
Country			
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I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Signature		Date	7/13/07
Name	CHRISTIAN STERNER	Telephone	303.499.0589
Title and Company	CO-FOUNDER WELLCOMEMAT, LLC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

61070110 v1

Electronic Acknowledgement Receipt

EFS ID:	2270059
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Darin J. Gibby/Connie Larson
Filer Authorized By:	Darin J. Gibby
Attorney Docket Number:	026819-000110US
Receipt Date:	02-OCT-2007
Filing Date:	04-MAY-2007
Time Stamp:	16:23:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	026819-000110-poa.pdf	49015 2a4abdfa46f1cf320a7526e6d00b6f2b9fdf130f	no	1
Warnings:					

Information:	
Total Files Size (in bytes):	49015

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New Applications Under 35 U.S.C. 111

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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

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA94111-3834

Date Mailed. 09/13/2007

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

The above-identified application has a new or revised projected publication date. The current projected publication date for this application is 12/20/2007. If this is a new projected publication date (there was no previous projected publication date), the application has been cleared by Licensing & Review or a secrecy order has been rescinded and the application is now in the publication queue.

If this is a revised projected publication date (one that is different from a previously communicated projected publication date), the publication date has been revised due to processing delays in the USPTO or the abandonment and subsequent revival of an application. The application is anticipated to be published on a date that is more than six weeks different from the originally-projected publication date.

More detailed publication information is available through the private side of Patent Application Information Retrieval (PAIR) System. The direct link to access PAIR is currently http://pair.uspto.gov. Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Questions relating to this Notice should be directed to the Office of Patent Publication at 1-888-786-0101.

PART 1 - ATTORNEY/APPLICANT COPY

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on August 13, 2007.

TOWNSEND and TOWNSEND and CREW LLP

By: /connie larson/
Connie Larson

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Christian A. Sterner

Application No.: 11/744,721

Filed: May 4, 2007

For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Confirmation No.: 9408

Examiner:

Art Unit: 2621

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

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

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references [in compliance with the requirements of 37 CFR §1.98(a)(2)] are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

/darin j gibby/
Darin J. Gibby
Reg. No. 38,464

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 303-571-4321
DJG/cl
61123196 v1

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	11/744,721
				Filing Date	May 4, 2007
				First Named Inventor	Sterner, Christian A.
				Art Unit	2621
(Use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	026819-000110US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-			
	AB	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	AC					☐
	AD					☐

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BA	http://www.veotag.com, 8-6-2007.	☐
	BB	http://www.viddler.com, 8-6-2007.	☐
	BC	http://www.motionbox.com, 8-6-2007.	☐
	BD	http://www.vsocial.com, 8-6-2007.	☐
	BE	http://www.zentation.com, 8-6-2007.	
	BF	http://www.cooltoors.com, 8-6-2007.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Electronic Acknowledgement Receipt

EFS ID:	2078815
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Darin J. Gibby/Connie Larson
Filer Authorized By:	Darin J. Gibby
Attorney Docket Number:	026819-000110US
Receipt Date:	13-AUG-2007
Filing Date:	04-MAY-2007
Time Stamp:	20:09:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		026819-000110-ids.pdf	836631 97e85c33a38d2edbb337bf9d0ed7bebc1f52b5b6	yes	14

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Information Disclosure Statement (IDS) Filed	1	3
	NPL Documents	4	5
	NPL Documents	6	7
	NPL Documents	8	8
	NPL Documents	9	10
	NPL Documents	11	12
	NPL Documents	13	14
Warnings:			
Information:			
	Total Files Size (in bytes):	836631	

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO
11/744,721	05/04/2007	2621	1090	026819-000110US

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA94111-3834

UPDATED FILING RECEIPT

Date Mailed: 07/23/2007

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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. 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)

Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

Assignment For Published Patent Application

WellcomeMat, LLC, Boulder, CO

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/746,645 05/07/2006

Foreign Applications

If Required, Foreign Filing License Granted:

Projected Publication Date: To Be Determined - pending completion of Security Review

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Preliminary Class

386

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

GRANTED

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

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

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the

subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on July 17, 2007.

TOWNSEND and TOWNSEND and CREW LLP

By: /connie larson/
Connie Larson

PATENT
Attorney Docket No.: 026819-000110US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 9408
Christian A. Sterner	Examiner:
Application No.: 11/744,721	Art Unit: 2621
Filed: May 4, 2007	TRANSMITTAL LETTER – RESPONSE TO NOTICE OF MISSING PARTS
For: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE	
Customer No.: 20350	

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

Sir:

Pursuant to the Notice to File Missing Parts of Nonprovisional Application dated May 29, 2007, enclosed are the following to be made of record in the above-identified application:

1) Executed Declaration

2) Copy of Notice of Missing Parts

Please charge Deposit Account No. 20-1430 for the following fees:

Small Entity:	(a)	Utility Filing Fee	$150
	(b)	Utility Search Fee	$250

(c)	Utility Examination Fee		$100
(d)	Application Size Fee		$0
(e)	Excess Claims Fees (§ 1.16(b), (c)):		
	40 - 20 = 20	x $25 =	$500
	4 - 3 = 1	x $100 =	$100
(f)	Multiple Dependent Claims		
(g)	Missing Parts Surcharge		$65
TOTAL FEES TO BE CHARGED			$1165

The Commissioner is hereby authorized to charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to Deposit Account No. 20-1430.

Respectfully submitted,

/darin j gibby/
Darin J. Gibby
Reg. No. 38,464

Customer No. 20350

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 415 576-0300
DJG/cl

61101818 v1

Attorney Docket No.: 026819-000110US

DECLARATION

As a below named inventor, I 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 joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE the specification of which was filed on May 4, 2007 as Application No. 11/744,721 and was amended on _____ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/746,645	May 7, 2006

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status

Full Name of Inventor 1:	Last Name: STERNER	Suffix:	First Name: CHRISTIAN	Middle Name or Initial: A.		
Residence & Citizenship:	City: Boulder		State/Foreign Country: Colorado	Country of Citizenship: United States		
Post Office Address:	Post Office Address: 1525 Quince Avenue		City: Boulder	State/Country: Colorado	Postal Code: 80304	
Full Name of Inventor 2:	Last Name: ZAINY	Suffix:	First Name: HAIDER	Middle Name or Initial:		
Residence & Citizenship:	City: Denver		State/Foreign Country: Colorado	Country of Citizenship: United States		
Post Office Address:	Post Office Address: 1270 Marion St. #312		City: Denver	State/Country: Colorado	Postal Code: 80218	

Attorney Docket No.: 026819-000110US

Full Name of Inventor 3:	Last Name: DiGIULIO	Suffix:	First Name: PHILIP	Middle Name or Initial: Thomas	
Residence & Citizenship:	City: New York		State/Foreign Country: New York	Country of Citizenship: United States	
Post Office Address:	Post Office Address: 53 West 16th Street, Apt. 1A		City: New York	State/Country: New York	Postal Code: 10011

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

Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
Christian A. Sterner Date 7/12/07	Halder Zamy Date 7/12/07	Philip Thomas DiGiulio Date 07/12/07

61070105 v1

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

FORMALITIES LETTER

Date Mailed: 05/29/2007

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 and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
  Applicant must submit $ **75** *to complete the basic filing fee for a small entity.*
- The oath or declaration is missing. *A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
  Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

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

- Additional claim fees of **$600** as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- 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 with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **$1090** for a small entity

- **$75** Statutory basic filing fee.

- **$65** Surcharge.

- The application search fee has not been paid. Applicant must submit **$250** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **$100** to complete the examination fee for a small entity in compliance with 37 CFR 1.27.

- Total additional claim fee(s) for this application is **$600**

  - **$100** for **1** independent claims over 3.
  - **$500** for **20** total claims over 20.

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.

BN

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199
PART 2 - COPY TO BE RETURNED WITH RESPONSE

Electronic Patent Application Fee Transmittal

Application Number:	11744721
Filing Date:	04-May-2007
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Filer:	Darin J. Gibby/Connie Larson
Attorney Docket Number:	026819-000110US

Filed as Small Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	250	250
Utility Examination Fee	2311	1	100	100
Pages:				
Claims:				
Claims in excess of 20	2202	20	25	500
Independent claims in excess of 3	2201	1	100	100
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Late filing fee for oath or declaration	2051	1	65	65
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1090**

Electronic Acknowledgement Receipt

EFS ID:	1982132
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Darin J. Gibby/Connie Larson
Filer Authorized By:	Darin J. Gibby
Attorney Docket Number:	026819-000110US
Receipt Date:	17-JUL-2007
Filing Date:	04-MAY-2007
Time Stamp:	18:54:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	$1090
RAM confirmation Number	2699
Deposit Account	201430
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		026819_000110_missparts.pdf	224670 b647cddb3a44df8872d4a2362b705d79e16cdae8	yes	6

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Miscellaneous Incoming Letter	1	2
Oath or Declaration filed	3	4
Miscellaneous Incoming Letter	5	6

Warnings:

Information:

2	Fee Worksheet (PTO-06)	fee-info.pdf	8802 9a8b92e53120448639 81bbcae6e137badb298bf2	no	2

Warnings:

Information:

Total Files Size (in bytes):	233472

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/744,721	05/04/2007	2621	0.00	026819-000110US	40	4

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA94111-3834

FILING RECEIPT

Date Mailed: 05/29/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. 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 mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. 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 (if appropriate).**

Applicant(s)

Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

Assignment For Published Patent Application

WellcomeMat, LLC, Boulder, CO

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/746,645 05/07/2006

Foreign Applications

If Required, Foreign Filing License Granted:

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

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Preliminary Class

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.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/744,721	05/04/2007	Christian A. Sterner	026819-000110US

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834

FORMALITIES LETTER

Date Mailed: 05/29/2007

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 and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
  Applicant must submit $ **75** *to complete the basic filing fee for a small entity.*
- The oath or declaration is missing. *A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
  Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

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

- Additional claim fees of **$600** as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- 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 with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **$1090** for a small entity

- **$75** Statutory basic filing fee.

- **$65** Surcharge.

- The application search fee has not been paid. Applicant must submit **$250** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit **$100** to complete the examination fee for a small entity in compliance with 37 CFR 1.27.

- Total additional claim fee(s) for this application is **$600**

  - **$100** for **1** independent claims over 3.
  - **$500** for **20** total claims over 20.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

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

BN

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199
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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/744,721	05/04/2007	2621	0.00	026819-000110US	40	4

CONFIRMATION NO. 9408

20350
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CENTER
EIGHTH FLOOR
SAN FRANCISCO, CA94111-3834

FILING RECEIPT

Date Mailed: 05/25/2007

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Christian A. Sterner, Boulder, CO;
Haider Zainy, Denver, CO;
Philip Thomas DiGiulio, New York, NY;

Assignment For Published Patent Application

WellcomeMat, LLC, Boulder, CO

Power of Attorney: None

Domestic Priority data as claimed by applicant

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Early Publication Request: No

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	026819-000110US
First Inventor	Sterner, Christian A.
Title	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ **Fee Transmittal Form** (e.g., PTO/SB/17)
   (Submit an original and a duplicate for fee processing)
2. ☒ **Applicant claims small entity status.** See 37 CFR 1.27.
3. ☒ **Specification** [*Total Pages* 84]
   Both the claims and abstract must start on a new page
   (For information on the preferred arrangement, see MPEP 608.01(a))
4. ☒ **Drawing(s)** *(35 U.S.C.113)* [*Total Sheets* 28]
5. **Oath or Declaration** [*Total Sheets* _____]
   a. ☐ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63 (d))
   (for a continuation/divisional with Box 18 completed)
   i. ☐ DELETION OF INVENTOR(S)
   Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☒ **Application Data Sheet.** See 37 CFR 1.76
7. ☐ **CD-ROM** or **CD-R** in duplicate, large table or Computer Program *(Appendix)*
   ☐ Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission**
   (if applicable, items a. - c. are required)
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

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P.O. Box 1450
Alexandria, VA 22313-1450

ACCOMPANYING APPLICATION PARTS

9. ☐ **Assignment Papers** (cover sheet & document(s))
   Name of Assignee _____
10. ☐ **37 CFR 3.73(b) Statement** *(when there is an assignee)* ☐ **Power of Attorney**
11. ☐ **English Translation Document** *(if applicable)*
12. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of foreign patent documents, publications, & other information
13. ☐ **Preliminary Amendment**
14. ☒ **Return Receipt Postcard** (MPEP 503)
    (Should be specifically itemized)
15. ☐ **Certified Copy of Priority Document(s)**
    (if foreign priority is claimed)
16. ☐ **Nonpublication Request** under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, *check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:*

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ----------

Prior application information: *Examiner* _____ *Art Unit:* _____

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☒ The address associated with Customer Number: **20350** ***OR*** ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone	(303) 571-4000	Email	

Signature	/darin j gibby/	Date	May 4, 2007
Name (Print/Type)	Darin J. Gibby	Registration No. (Attorney/Agent)	38,464

61045481 v1

Application Data Sheet

Application Information

Application Type::	Regular
Subject Matter::	Utility
Title::	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
Attorney Docket Number::	026819-000110US
Request for Early Publication::	No
Request for Non-Publication::	No
Total Drawing Sheets::	28
Small Entity?::	Yes
Petition included?::	No
Secrecy Order in Parent Appl.::	No

Applicant Information

Applicant Authority Type::	Inventor
Primary Citizenship Country::	US
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State or Province of Residence::	CO
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State or Province of mailing address::	CO
Country of mailing address::	US
Postal or Zip Code of mailing address::	80218

Applicant Authority Type::	Inventor
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Middle Name::	Thomas
Family Name::	DiGiulio
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State or Province of Residence::	NY
Country of Residence::	US
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City of Mailing Address::	New York
State or Province of mailing address::	NY
Country of mailing address::	US
Postal or Zip Code of mailing address::	10011

Initial 5/4/07

Correspondence Information

Correspondence Customer Number:: 20350

Representative Information

Representative Customer Number:: 20350

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	An Appn claiming benefit under 35 USC 119(e) of	60/746,645	05/07/06

Assignee Information

Assignee Name::	WellcomeMat, LLC
Street of mailing address::	1525 Quince Avenue
City of mailing address::	Boulder
State or Province of mailing address::	CO
Country of mailing address::	US
Postal or Zip Code of mailing address::	80304

PATENT APPLICATION

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

Inventor: Christian A. Sterner, a citizen of The United States, residing at
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Assignee: WellcomeMat, LLC
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Boulder, CO 80304

Entity: Small

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application is a nonprovisional claiming the benefits of U.S. Prov. App. No. 60/746,645, entitled "SYSTEM FOR ON-LINE VIDEO-BASED PROPERTY SALES AND MARKETING," filed May 7, 2006 by Christian A. Sterner et al. This application is also related to U.S. App. No. ??, entitled "METHODS AND SYSTEMS FOR HANDLING MONTAGE VIDEO DATA" (Attorney Docket No. 026819-000120US), filed on the same date as the current application by Christian A. Sterner et al. The entire disclosures of both related applications are herein incorporated by reference for all purposes.

BACKGROUND OF THE INVENTION

[0002] This invention relates generally to online video; and more particularly to methods and systems for handling online video for property commerce over the Internet.

[0003] The past decades have seen the tremendous growth of Internet traffic, and with it, the birth of a new world of global electronic commerce (e-commerce). E-commerce allows sellers to share their wares with consumers around the world in virtual marketplaces. Through these virtual marketplaces, sellers can open virtual storefronts with little to no capital, quickly and inexpensively distribute information about products and services to a global customer base, and collect payment through electronic fund transfers.

[0004] In exchange for these benefits, however, e-commerce drastically changes the relationships between buyers and sellers. One primary manifestation of this change is the difficulty with current technology to give consumers a feel for goods and services before they buy. In a virtual marketplace, a consumer has limited ability to experience a product—to try on clothing, to smell a chef's creation, or to walk through a neighborhood.

[0005] Still, as consumer high-speed data capability becomes increasingly ubiquitous, sellers are finding ways to combat those difficulties. The vast majority of e-commerce websites, for example, now use photos along with product descriptions to provide more information to consumers. Some progressive online retailers have even begun to use video,

virtual reality applications, three-dimensional modeling, and other tools to create a greater sense of virtual interactivity between consumers and products.

[0006] One industry which has experienced this trend has been the real property marketing industry. For years, real estate marketers have experienced the difficulties inherent in dealing with large amounts of data from large numbers of sources. Services, such as the Multiple Listing Service (MLS) help provide some real property listings, but finding unlisted sellers and potential buyers often requires mass advertising and marketing. Traditionally, this includes expensive methods, such as creating full-color print advertisements, purchasing advertising space in multiple locations, planting "For Sale" signs and information at locations for potential drive-by buyers, holding open houses, and guiding personal walk-throughs.

[0007] The rise of the Internet has expanded the reach of advertising and has allowed for enhanced marketing capabilities at much lower cost. Still, real estate marketers and agents have found it difficult to communicate the feel of real property to prospective buyers in a virtual space. For example, while it is well accepted in the industry that property listings which include photos tend to be more successful at luring prospective buyers, it is often still difficult to relate the multiple image viewpoints together to convey a cohesive sense of the real property to a potential buyer.

[0008] To remedy that and other problems, the industry has begun to see benefits to video marketing. Through video media, potential buyers can take virtual tours of properties, and even listen to audio associated with the video. While this type of information used to be very expensive to distribute (e.g. through shipping video cassette tapes), the Internet provides an inexpensive and efficient video distribution medium. Further, newer video compression technologies and the prevalence of home broadband connections have made it practical to distribute audiovisual advertisements to potential buyers around the world.

[0009] There remain, however, significant disadvantages to video marketing. One disadvantage is the cost of producing a quality result. Though most home computers today come with user-friendly photo editing software, much of the video editing software and hardware is cumbersome, expensive, and difficult to learn. The result is that the average property seller or marketer must either spend a significant amount of money to hire a videographer to shoot and process video, or spend a significant amount of time learning to use a video editing system.

[0010] Another disadvantage is that, where photos often provide too little information to consumers, videos may provide too much to be useful. For example, say a consumer would like to find a house with a large kitchen. It may be easy to find photos of a kitchen, but difficult to really experience the size and utility of the kitchen from those photos. On the other hand, video of the kitchen may provide a much better representation of the space, but may be difficult to find within the footage of the entire house. Further, while it may be simple to compare photos of many kitchens, it may be cumbersome and time-consuming to find and compare video footage.

[0011] Similar difficulties arise in the vast majority of property marketing industries, whether the property is real estate, consumer goods, services, or any other community of buyers and sellers. Thus, though these industries understand the vast advantages of video marketing over photos or plain text, the transition has been slow. The industry has remained in need of simple methods and systems for handling online video for property marketing.

BRIEF SUMMARY OF THE INVENTION

[0012] Embodiments of the invention can address this condition in the art by providing methods and systems for handling online video for property marketing using cue point information.

[0013] A first set of embodiments provides a system for handling video cue points. The system comprises an application server in operative communication with a network, a video server in operative communication with the application server and configured to serve a set of video information indexable by a set of video identifiers, a cue point server in operative communication with at least one of the application server or the video server, and configured to serve a set of cue point information; and a video environment. The video environment is configured to be runnable by the application server, configured to receive data over the network relating to interactions with a client terminal, and comprises a cue point handler configured to execute at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information.

[0014] In some embodiments, the system further comprises a data store configured to store at least a portion of the set of video information and at least a portion of the set of cue point information. In other embodiments, the system further comprises a relational database configured to store at least a portion of the set of cue point information in relation to at least a

portion of the set of video information. In yet other embodiments, the system further comprises a relational database configured to store at least a portion of the set of cue point information in relation to at least another portion of the set of cue point information.

[0015] In still other embodiments, the system further comprises an authentication server configured to authenticate clients of the system. And in other embodiments, the system further comprises a video authorer configured to communicate with a video creation device. Further, in other embodiments, the system comprises a comment handler configured to perform at least one of receiving, displaying, or associating comment information. In these embodiments, the comment information comprises at least one of textual, audio, or video information, and relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information.

[0016] In certain embodiments, the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy. Also, in some embodiments, the video environment comprises at least one of a video player or a video editor. In other embodiments, the video server is in operative communication with the application server via the network. In still other embodiments, the cue point server is in operative communication with at least one of the application server or the video server via the network. And in other embodiments the network is the Internet.

[0017] A second set of embodiments provides a method for handling video cue points. The method provides a computer system. The computer system has at least one computer-readable medium comprising a video editing environment, and the computer system is in operative communication with a network.

[0018] The method also receives, using the computer system, server video data from a set of stored video data; transmits over the network, using the computer system, a set of client video data based at least in part on the set of server video data; receives over the network, using the computer system, a set of cue point information; and updates a set of cue point associations with at least one of the client video data, the server video data, or the stored video data, the set of cue point associations being based at least in part on the set of cue point information.

[0019] In some embodiments, the method further provides a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information. In certain of these embodiments, the method

further receives a pause signal over the network representing that playback of the client video data has been paused, and transmits the cue point editing mode after receiving the pause signal. In certain others of these embodiments, the method further receives a pause signal over the network representing that playback of the client video data has been paused, receives a time position representing the time position within the client video data at which playback was paused, and creates a cue point location associated at least in part with the client video data and the time position.

[0020] In other embodiments, the method further receives, over the network, authentication information relating to access authority of a client terminal. In certain of these embodiments, the method further denies or allows access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

[0021] In other embodiments, the video editing environment comprises a server-level video editor. In yet other embodiments, at least a portion of the server video data is received over the network.

[0022] In still other embodiments, the client video data is transmitted to a video player configured to display video data on a client terminal. In certain of these embodiments, the client video data is transmitted progressively, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted.

[0023] A third set of embodiments provides a method for handling video cue points. The method provides a computer system. The computer system has at least one computer-readable medium comprising a video playback environment, and the computer system is in operative communication with a network.

[0024] The method further receives, using the computer system, server video data from a set of stored video data; receives, using the computer system, server cue point information from a set of stored cue point information; transmits over the network, using the computer system, a set of client video data; transmits over the network, using the computer system, a set of client cue point information; receives a selected cue point from the set of client cue point information; and locates a time position in the client video data based at least in part on the selected cue point. At least part of the client video data is based on the set of server video data and playable on a client terminal. At least part of the client cue point information is based on the set of server cue point information and selectable by the client terminal.

[0025] In some embodiments, the method further receives, over the network, authentication information relating to access authority of a client terminal. In certain of these embodiments, the method further denies or allows access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

[0026] In other embodiments, the video playback environment comprises a video player configured to display video data on a client terminal. In certain of these embodiments, the client video data is transmitted progressively, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted.

[0027] In other embodiments, at least a portion of the server video data is received over the network.

[0028] A fourth set of embodiments provides a method for handling video cue points. The method accesses, over a network and using a client terminal, a host computer system comprising a video environment; and interacts with at least part of the set of cue point information using the client terminal. The video environment comprises a video handler configured to transmit video data over the network, and a cue point handler configured to transmit cue point information over the network, at least part of the cue point information being related to at least part of the transmitted video data.

[0029] In some embodiments, the method further transmits client authentication information over the network to the host computer system. In other embodiments, the video environment comprises at least one of a video editing environment or a video playback environment.

[0030] In various embodiments, the method further accesses a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information. In certain of these embodiments, the method further accesses a cue point editing mode by pausing playback of the client video data. In certain others of these embodiments, the method further accesses a cue point editing mode by pausing playback of the client video data at a time position; and creates a cue point location associated at least in part with the client video data and the time position.

[0031] In some embodiments of the method, the interacting step comprises performing at least one of creating, modifying, deleting, or interpreting a portion of the set of cue point information. In other embodiments, the video environment comprises a video authoring

environment configured to interface with a video creation device, and the method further comprises uploading video data using the video authoring environment.

[0032] This summary provides only a general outline of embodiments according to the present invention. Many other objects, features and advantages of the present invention will become more fully apparent from the following detailed description, the appended claims and the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0033] A further understanding of the nature and advantages of the present invention may be realized by reference to the remaining portions of the specification and the drawings wherein like reference numerals are used throughout the several drawings to refer to similar components. In some instances, a sublabel is associated with a reference numeral and follows a hyphen to denote one of multiple similar components. When reference is made to a reference numeral without specification to an existing sublabel, it is intended to refer to all such multiple similar components.

[0034] FIG. 1A provides an exemplary system diagram for handling video cue points for use with various embodiments of the invention.

[0035] FIG. 1B provides another exemplary system diagram for handling video cue points for use with various embodiments of the invention.

[0036] FIG. 2 provides an exemplary flow diagram summarizing methods for determining access to video environments in various embodiments of the invention.

[0037] FIG. 3A provides an exemplary flow diagram summarizing methods relating to video editor environments in various embodiments of the invention.

[0038] FIG. 3B provides an exemplary flow diagram of video editor environment method embodiments according to the invention.

[0039] FIG. 3C provides an exemplary flow diagram of cue point editor method embodiments according to the invention.

[0040] FIG. 4 provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of video editing environments.

[0041] FIG. 5 provides an exemplary flow diagram summarizing methods relating to client terminal interactions with video editor environments in various embodiments of the invention.

[0042] FIG. 6 provides an exemplary screen shot of an embodiment of a video editing environment as viewed by a client terminal according to the invention.

[0043] FIG. 7 provides an exemplary data structure for use with various embodiments of video editing environments according to the invention.

[0044] FIG. 8 provides an exemplary flow diagram summarizing methods relating to video playback environments in various embodiments of the invention.

[0045] FIG. 9A provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of system-level video playback environments.

[0046] FIG. 9B provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of system-level video playback environments.

[0047] FIG. 10 provides an exemplary flow diagram summarizing methods relating to client terminal interactions with video playback environments in various embodiments of the invention.

[0048] FIGS. 11A – 11C provide exemplary screen shots of various embodiments of a video playback environment as viewed by a client terminal according to the invention.

[0049] FIG. 12 provides an exemplary screen shot of a web-based environment in which an embodiment of a video playback environment is embedded according to the invention.

[0050] FIG. 13A provides an exemplary system diagram for server-level generation and handling of montage video information for use with various embodiments of the invention.

[0051] FIG. 13B provides an exemplary system diagram for integrated, server-level generation and handling of montage video information for use with various embodiments of the invention.

[0052] FIG. 13C provides an exemplary system diagram for client-level generation and handling of montage video information for use with various embodiments of the invention.

[0053] FIG. 14 provides an exemplary flow diagram summarizing host-oriented methods for generating and handling montage video information in various embodiments of the invention.

[0054] FIG. 15 provides an exemplary flow diagram summarizing client-oriented methods for generating and handling montage video information in various embodiments of the invention.

[0055] FIG. 16 provides an exemplary set of data structures for use with generating embodiments of montage video data according to the invention.

[0056] FIGS. 17A and 17B provide exemplary screen shots of embodiments of montage video data being displayed in the context of video playback environments as viewed by client terminals according to the invention.

[0057] FIG. 18 provides an exemplary set of data structures for use with generating embodiments of montage video data from hierarchical montage requests according to the invention.

[0058] FIGS. 19A – 19C provide exemplary screen shots of embodiments of montage video data resulting from hierarchical montage requests being displayed in the context of video playback environments according to embodiments of the invention.

[0059] FIG. 20 provides an exemplary flow diagram summarizing methods for handling shared search environments according to embodiments of the invention.

[0060] FIG. 21 provides an exemplary screen shot of embodiments of shared search environments according to embodiments of the invention.

DETAILED DESCRIPTION OF THE INVENTION

[0061] Among other things, embodiments of the invention provide systems and methods for enhancing and handling online video data for use with property-related commerce and communication. Some embodiments may provide systems and methods for generating and handling video cue points. Other embodiments may provide systems and methods for using those cue points to generate video montage files and for handling video montage files. Still other embodiments may provide systems and methods for handling group search environments.

Cue point Handling Systems

[0062] FIG. 1A provides an exemplary system diagram for handling video cue points for use with various embodiments of the invention. The system 100 comprises an application server 110 configured to execute, and possibly store, one or more applications. The application server 110 may be accessible via a network 130, like the Internet or any other public or private, wired or wireless network. The application server 110 may be a dedicated server computer, a set or network of computers, an runnable file, or any other component capable of serving the desired program functions to a client.

[0063] The application server 110 may be in communication with one or more video servers 112, which may store and/or serve video files 113, or pointers to video files 113. It will be appreciated that the video files may be anything capable of storing or providing access to video data. Further, it will be appreciated that video data may include visual data, audio data, still frames, stop-time successions of images, virtual reality information (e.g. in Virtual Reality Markup Language (VRML)), three-dimensional modeling data, textual data, or any other information for displaying video images.

[0064] In one example, the video server 112 may be a dedicated computer or network of computers with the capability to store and index mass amounts of video data. In this example, to access a video file 113, a command may be sent to the video server 112 with an identifier (e.g. retrieve('VID_0001')), the identifier being a unique file name or other identifier of a video file or set of video files.

[0065] In another example, the video server may comprise a list stored in one or more files which matches video identifiers with the location of respective videos. The videos may be located in the same data storage device as the video server, or in some other location, such as at some internet address, file transfer protocol (FTP) site, or some other protocol location (e.g. by hyper-text transfer protocol, HTTP). Similarly, one file may be found at multiple locations, for example at multiple mirror sites on the Internet; so one video file identifier may be stored in relation to multiple location pointers. In this example, to access a video file 113, a command may be sent to the video server 112 with a video file identifier. Say the command, "RETRIEVE ('VID_0001')", is used to retrieve a video file identified as "VID_0001" from the video server 112. When the video server 112 receives the "RETRIEVE" command, a relational database may be queried to find an entry for "VID_0001". This entry may be stored in relation to a list of URL and FTP destinations.

The video server 112 may then use various algorithms to select a download location and download the file.

[0066] The application server 110 may also be in communication with one or more cue point servers 114, which may store and/or serve cue point information 115, or pointers to cue point information 115. In one example, the cue point server 112 may be a dedicated computer or network of computers with the capability to store and index sets of cue point information 115.

[0067] Some or all of this cue point information may be related to some or all of the video files 113. In some embodiments, cue points may refer to indexed time positions or tags anywhere within a video file. In these embodiments, multiple cue points may refer to multiple time positions within a video file. For example, say a video file contains video information about a hotel suite, in which there is one minute of video each relating to the bedroom, bathroom, living room, and kitchenette. In this example, four cue points may be associated with the video file, pointing to time positions at zero, one, two, and three minutes, and essentially providing chapter markers for the different sections of the video.

[0068] In other embodiments, cue points may refer to indexed locations or tags within a file, other than those based directly on time positions. For example, cue points may point to a specific number of bits of digital video data from the beginning or end of a video file, or from some other cue point location. For another example, using audio or image recognition, a cue point may represent the third time a specific word or image occurs within the video file. Audio recognition may detect and/or interpret, for instance, changes in audio level (e.g. to automatically create a cue point wherever there is more than one second of silence), certain sounds (e.g. a beep or other audio cue), or even more complex sound patterns (e.g. a word, a particular voice, etc.). Video recognition may detect and/or interpret, for example, particular images (e.g. the shape of a house, a predefined video cue, an icon, etc.), text information (e.g. a word, a character, etc.), changes in video (e.g. a scene change, a static frame for a given amount of time, etc.), or even complex image patterns (e.g. the movement of a character into a new environment, different types of lighting conditions, etc.).

[0069] In yet other embodiments, cue points may be video meta-tags. Meta-tags may describe the information in the video file, rather than pointing to specific data locations within the file. For example, video meta-tags for a video about a hotel suite in downtown Denver may include descriptive identifiers, like "hotel," "suite," "kitchenette," "luxury,"

"downtown," etc. It will be appreciated that many different types of cue points are possible, which may require that the system 100 can convert, interpret, or otherwise handle cue points of different types and/or from different domains.

[0070] In different embodiments of the invention, cue points may end in different ways. In some embodiments, the cue point refers only to a start or end time position of a particular video event. In other embodiments, a cue point may have a beginning and end. The end of the cue point may be determined or set in any useful way. In one example, the cue point may end at the time position of the cue point which follows it in time order (or at some time based on that time position, like one millisecond prior to the next cue point). In another example, the cue point may end at a designated time or bit location. In yet another example, the cue point may end based on some other condition, like detecting a change in comment, analyzing a pattern of user activity, detecting a video or audio pattern, etc.

[0071] Further, cue points may be stored in cue point banks, which may be served by a cue point server 112. The cue point bank may be any useful type of data structure for storing cue points and related information, either in relation to or not in relation to video files. For example, a cue point bank may be used to rank the most popular cue point names in a particular category of video files. In some cases, it may be superfluous and require too much storage to relate the cue points in this ranking to their respective video files. In other cases, it may be desirable to establish the relationships so that, when a cue point name is located in the cue point bank, an application may be able to also locate the video files which contain a cue point with that name.

[0072] Cue points may be stored to a cue point bank in any useful way, including, for example, by being manually added to a cue point bank, being automatically added whenever a cue point is created or on some other condition, or being added en masse from an external list. Further, cue points entries in the list may not relate to actual cue points in video files. For example, lists may be created by scanning the Internet for key terms relating to a specific subject, by parsing key terms from an article relating to a specific subject, by scanning video data with various audio or textual recognition algorithms, or by using thesauruses to generate lists of similar terms. Even further, cue point banks may be modified in any useful way. For example, cue point banks which record cue point rankings may allow modification manually by accepting votes or rankings, or automatically by continually polling various applications and systems for relevant information.

[0073] It will be appreciated that the application server 110, video server 112, and cue point server 114 may communicate in various ways. In a first way, the components may all be part of one physical system, for example as multiple files on a computer, multiple storage devices associated with a single processor, etc. In a second way, the components may each exist as a separate physical system, for example as one or more dedicated server computers. In this second way, the server computers may be collocated or distributed, and may be in communication via any effective channel, including any type of wired or wireless, public or private network. Further, some or all of the server components may communicate with one another directly or indirectly. For example, the server components may all communicate through a central processor; or the video server 112 and the cue point server 114 may communicate only with the application server 110 and not to each other.

[0074] The application server 110 may be configured to handle various applications, including a Video Editing Environment (VEE) 116 and/or a Video Playback Environment (VPE) 118. These programs may be stored on the application server 110, runnable (able to be executed, performed, effectuated, etc.) by the application server 110, or handled by the application server 110 in some other useful way. Either or both of the VEE 116 and the VPE 118 may also comprise or be in communication with a cue point handler 120. Further, the VEE 116 and the VPE 118 may be part of the same application or separate applications. The VEE 116 may also comprise a video player.

[0075] The system 100 may also comprise various types of client terminals, including viewer terminals 132 and editor terminals 134. These terminals may comprise any device or application capable of accessing the system 100 in a useful way. For example, viewer terminals 132 may include any device capable of playing video data from the VPE 118, like desktop computers, laptop computers, cell phones, personal digital assistants (PDA's), dedicated viewers, etc. Editor terminals 134 may include any of these devices, as well. In certain embodiments, the VEE 116 and VPE 118 may require different system capabilities, thereby making certain types of devices capable or incapable of performing as either viewer terminals 132 or editor terminals 134. For example, the video editing functionality of the VEE 116 may require extra processing power. Alternatively, the VPE 118 may require higher resolution capabilities, where the VEE 116 may allow low-resolution editing.

[0076] It will be appreciated that many types of applications are possible which may use video information and/or cue point information. In some embodiments, one or more

applications may generate derivative information from cue point information, video information, VEE usage information, VPE usage information, or any other useful information. Derivative information may include any useful information which may be generated from these multiple information sources. In certain of these embodiments, derivative information may include marketing information generated from statistical processing of these various types and sources of data. For example, derivative information may include which videos, cue points, categories thereof, etc. were most visited by clients; which cue point names were most used in cue point editors; which geographic or socioeconomic groups of clients used various systems and methods in which ways, etc.

[0077] It will be appreciated that the derivative information may be independently valuable to a number of different types of entities. For example, a real estate agency may find value in marketing statistics relating to how their listings are being viewed and how their listings may be improved. As such, other applications may be desirable which may report, tailor, print, distribute, and perform other functions relating to the generated derivative data.

[0078] Viewer terminals 132 and editor terminals 134 may communicate with the application server 110 via a network 130. The network 130 may be any public or private, wired or wireless network or set of networks. For example, a video cell phone may connect to the application server 110 through a wireless connection to its service provider's network, and then through a wired connection to the Internet address of the application server 110. In some embodiments, the network 130 may comprise any number of computers, configured as centralized or decentralized peer-to-peer networks, ad hoc networks, mesh networks, or any other useful configuration. For example, the network 130 may comprise two terminals connected to one another by a Universal Serial Bus (USB) cable, each performing server functions for the other computer.

[0079] The application server 110 may also be in communication with an authorization server 122. The authorization server may be configured to allow or deny access to all or part of the various applications handled by the application server 110. For example, it may be desirable to allow free access to the VPE 118 so any client can watch video files, but limit access to the VEE 116 so only authorized clients may edit video files. In some embodiments, the authorization server 122 may be configured to provide other types of authorization and/or security. For example, the authorization server 122 may provide certain encryption or firewall capabilities.

[0080] Further, the system 100 may comprise a Video Authoring Environment (VAE) 136. The VAE 136 may allow video authors to generate video data from a video creation device 138. The video creation device 138 may be a video camera, a virtual reality environment creator (e.g. using virtual reality markup language (VRML)), three-dimensional modeling software, stop-time photography, image creation and editing devices (e.g. drawing tablets, photo editing software, still cameras, etc.), audio creation devices (e.g. microphones, audio processing software, etc.), text creation devices (e.g. keyboards, text editors, etc.), or any other device capable of creating data which may become part of a video file. The VAE 136 may be one of the applications handled by the application server 110 or a separate application which communicates with components of the system, for example, through the network 130. The VAE 136 may alternatively be an application of or in communication with the video server 112.

[0081] In some embodiments, certain components of the system 100 may be part of a subsystem 140. The subsystem 140 may be owned, controlled, operated, maintained, or otherwise associated with a host party. For example, the network 130 may be an external network, and one company may own and operate all the system components on one side of the network. In the illustrated case, one company may own a subsystem 140 comprising the application server 110, video server 112, cue point server 114, authorization server 122, and all the applications associated with those servers, including the VEE 116 and VPE 118. It will be appreciated that many types of ownership arrangements, system and subsystem configurations, and network arrangements are possible.

[0082] FIG. 1B provides another exemplary system diagram for handling video cue points for use with various embodiments of the invention. The system 150 comprises an application server 160 configured to handle applications, including a VEE 166 and a VPE 168, both of which may comprise or communicate with a cue point handler 170. The application server 160 is in communication with a network 180. The application server 160 is also in communication with video servers 162 and cue point servers 164 via the network 180.

[0083] In this system 150, viewer terminals 182 and editor terminals 184 may connect to the application server through the network 180. The application server 160 may then communicate with multiple video servers 162 and cue point servers 164 also via the network 180. Further, some video servers 162-1 may communicate directly with some cue point servers 164-1.

[0084] For example, a viewer may wish to use a viewer terminal 182 to play "VID_0001.video," a video file. The viewer terminal 182 may contact the application server 160, which may execute the VPE 168 application. The VPE 168 may then search for and locate both the "VID_0001.video" file and its associated cue point information on a video server 162-1 and cue point server 164-1, respectively, both of which may be connected to the Internet 180. Through the VPE 168 application, the viewer may be able to download the "VID_0001.video" file and its cue point information and play the file through the viewer terminal 182.

[0085] As illustrated, the application server 160 and its associated applications are part of a subsystem 190 which may be owned or operated by one party. Whereas the host of the system 100 in FIG. 1A may control a number of system components, including the video servers 112 and cue point servers 114, the host of the system 150 in FIG. 1B only controls the application level of the system. In these embodiments of the system 150, the actual video and cue point data may be distributed widely across one or more networks 180, with the subsystem 190 performing a more intermediary role.

[0086] It will be appreciated that the many embodiments of the present invention may be realized in the context of many different types and scopes of systems. As such, the systems described herein in reference to FIGS. 1A and 1B should be construed as only exemplary systems of the invention and the invention should be construed broadly to encompass all systems which may effectuate the invention.

Client Authorization Methods

[0087] Embodiments of the invention may load one or more applications relating to editing or playback of video data. Prior to loading any of these video environments, however, it may be desirable in some cases to determine whether a client has appropriate authorization to access an environment or application. In some embodiments, authorization relate, at least partly, to login information associated with the client attempting access.

[0088] FIG. 2 provides an exemplary flow diagram summarizing methods for determining access to video environments in various embodiments of the invention. The method 200 may begin by requesting login or client information 202 from the party requesting access to the video environment or application (the client). This information may be requested 202 from the client and/or from other systems or applications.

[0089] For example, the client may provide information like a login identifier and a password, or any other desired or required information for determining the client's level of authorization. If this is the client's first login (or if the client wishes to add or modify her information), the client may desire or be required to provide more profile information to help determine an appropriate level of access. In one example, the client may have to provide an association from or verification by an approved organization, like a business identifier for an approved real estate company. In another example, by uploading a video file, the method 200 may add that file to the client's list of files to which the client has editor permission.

[0090] Additionally, or alternatively, relevant information may be stored on one or more other system, file, application, etc. For instance, after providing a login name and password, an authentication server may check the login information against a database to determine certain authorization-related attributes associated with that client. These authorization attributes ay include, for example, files to which the client has access, whether the client has editing (e.g. read, write, modify, delete, etc.) permissions on those files, or any other attributes useful to determining level or type of access.

[0091] It will be appreciated that login information may be requested 202 for various purposes, and that different types of information may be useful for these different purposes. In certain embodiments, for example, the login information may be used to determine which clients are logging in and how often, or which files or applications are accessed by those clients most often. In other embodiments, the information may be used to provide or limit access to all or part of various environments.

[0092] Once the login information has been requested 202, the method 200 may assign a client identifier 204 to the client. Assigning this identifier 204 may involve assigning a login name, password, or other identification information to the client; and/or it may involve creating a unique identifier which can be used by various systems, applications, etc. for identifying that client.

[0093] Also, after a client has entered enough profile information, the method 200 may determine the client type 206. In some embodiments, this will include a determination of whether the client is an editor or a viewer. It will be appreciated that many other client types may be desirable for different environments. For example, it may be desirable to determine whether the client is an advanced or novice client, whether the client is bound by certain contractual obligations, whether the client's use falls within certain payment plans, etc.

Further, of course, the client may be a different type of client depending on the file or files to which she is attempting access. For example, the client may be an editor for all files which she uploaded to the system, a viewer to all files uploaded by others and marked as public, and neither a viewer nor an editor for any files marked private or not yet published.

[0094] If the client is determined to be an editor 206-1, the method 200 may set certain editor permissions 210. These permissions may allow or deny access to certain applications, files, controls, fields, menus, etc. At this point, the method 200 may determine whether the editor would like to (or is able to) enter the VEE 212. If the editor will enter the VEE 212-1, the method 200 may run the VEE 214. If the editor will not (or cannot) enter the VEE 212-2, the method 200 may terminate 230. Terminating 230 may involve logging the client out of the method 200, redirecting the client, or any other useful termination procedure.

[0095] If the client is determined to be a viewer 206-2, the method 200 may set certain viewer permissions 220. These permissions may allow or deny access to certain applications, files, controls, fields, menus, etc. At this point, the method 200 may determine whether the viewer would like to (or is able to) enter the Video Playback Environment (VPE) 222. If the viewer will enter the VPE 222-1, the method 200 may run the VPE 224. If the viewer will not (or cannot) enter the VPE 222-2, the method 200 may terminate 230.

Video Editor Environments

[0096] FIG. 3A provides an exemplary flow diagram summarizing methods relating to video editor environments in various embodiments of the invention. The method 300 may begin by loading a video editing environment (VEE) 310. Loading the VEE 310 may involve executing an application invoking various software and/or hardware commands. It will be appreciated that the VEE may be loaded 310 in any useful way to provide the desired results. For example, the VEE may load as a script in the background of a webpage, as a server-level application, as a client-level application, or with various components of the application loading in different ways.

[0097] Prior to loading the VEE 310, the method 300 may require certain set-up steps. For example, the method 300 may process login 302 of a client. In certain embodiments, the method may process the login 302 to maintain records of the clients of the method 300. For example, it may be desirable to know who uses the method 300 and how often, or which files or applications are accessed most often.

[0098] In other embodiments, processing the login 302 may require that the client enters certain login information to determine the client's level of authorization. For example, it may be desirable to limit access to the VEE only to certain types of clients. Similarly, it may be desirable to open access to the VEE, but limit access to certain files. In the latter case, it may be necessary as part of processing the login 302 to acquire information from the client regarding which files the client intends to access. In these embodiments, the method 300 may determine based on the login information whether the client has permission 304 to access all or part of the VEE. For example, the system may deny access based on stored attributes associated with the client (e.g. a level of authority attribute), inferred attributes based on extrinsic information (e.g. time of day, geographic location associated with the client's Internet Protocol address, etc.), incorrect provided information (e.g. client name and password do not match those on file, etc.), technical information (e.g. client terminal does not meet the minimum system requirements), or any other information which may be used to determine level of access. If the client does not have permission 304-1 to access the VEE or the desired files, the method 300 may terminate 332. If the client does have permission 304-2 to access the VEE or the desired files, the method 300 may continue to load the VEE 310.

[0099] Once the VEE is loaded 310, the method 300 may determine whether the client is attempting to use a new or existing video 312. If the client is attempting to use a new video 312-1, the method 300 may acquire the new video information 314-1, for example by uploading, downloading, transferring, or compiling the video data. If the client is attempting to use an existing video 312-2, the method 300 may acquire the existing video information 314-2 from wherever it is stored, for example from a video server.

[0100] The method 300 may then generate a VEE graphical user interface (GUI) 316. This interface may comprise any graphical, textual, audio, or other data which is desirable or necessary for providing interface capabilities to a client. It will be appreciated that the GUI does not require any graphical interface elements. For example, it may be possible to create an interface which uses only text, sound, or some other interface capability. Say the client of the VEE is actually another computational system. In that case, the client system may interact with the VEE at the script (or other) level, making graphical controls superfluous.

[0101] It will be appreciated that the GUI may be generated 316 in any useful way for providing a useful interface to the VEE. For example, the GUI may be generated 316 as a webpage on a client's web browser, as a frame within a webpage, as a dedicated client-level

application on the client's terminal (with the VEE itself running either at the client- or server-level), or as a background script to be executed by another application (e.g. as Visual Basic commands for an interpreter which may use those commands to generate the GUI).

[0102] The GUI may comprise such useful elements as a video frame for displaying video information (e.g. an imbedded video player), video controls (e.g. play, pause, fast forward, rewind, volume control, etc.), navigational buttons (e.g. an "Exit the VEE" button), or informational text fields. Further, the GUI may comprise any other desired elements, such as aesthetic components (e.g. borders, logos, images, etc.), or advertisements. In certain embodiments, the GUI elements will be embedded within the context of another environment (e.g. webpage, application, etc.). For example, an environment may be created and highly branded by a certain company which uses the method 300 to handle its video editing functionality. In that case, the environment may comprise many elements which are independent of the GUI, and the GUI may provide only a minimal number of controls, fields, etc. for editing a video file, when needed or desired.

[0103] It will be appreciated that the GUI elements may be dependent on or independent of aspects of the loaded VEE instance. In some embodiments, the VEE GUI may look identical, regardless of any external information being passed to it (except, of course, the actual video file being played, the specific cue point information, etc.). In other embodiments, the VEE GUI may adapt or modify based on extrinsic information, like attributes of the client, the video file, the cue point information, etc. In one example, if the client's name is John and the time of day is the afternoon, the GUI may modify a text field to state "Good Afternoon, John." In another example, if the video file relates to real estate, advertisements may appear within or along with the GUI relating also to real estate. In yet another example, the GUI may recognize the skill levels of clients, providing different types of controls and options to advanced clients than to novice clients. It will be appreciated that many types of tailored content are possible, based on the various types of information available to the VEE.

[0104] Either separately or as part of the GUI, the method 300 may generate a video frame 318 for displaying video information. Generating the video frame may 318 may utilize, comply with, or be compatible with a number of different technologies. For example, different video files may be encoded, transcoded, or stored in different formats or using different public or proprietary algorithms or standards. Further, video files may load in various ways, including as a complete file, streaming, or progressive. Progressive loading of

video files, for example, allows the video frame to begin playing the portion of video data which has already loaded while the remainder of video data continues to load. Alternatively, video may load in a non-linear fashion. For example, different portions of the video may load from different servers, at different rates, etc, or a client may force a portion of the video to download out of order (e.g. by selecting a cue point location relating to video data which had not yet loaded).

[0105] The video frame may also comprise its own GUI elements, including video and audio controls, and text fields. For example, the video frame may generate 318 along with a virtual play/pause button, volume controller, equalizer, etc. Further, the video data may comprise and/or be associated with other data, including text descriptions, audio information, and cue point information. Some or all of this information may also be displayed within the video frame, or locations for displaying this information may be generated along with the video frame.

[0106] In one example, the video frame may comprise a field spanning a lower portion of the frame in which text information may appear (e.g. subtitles, captions, or comments). This field may be independently controllable or editable, for example to take up the lower fifth of the frame, to have a thirty-percent translucent grey background with black text, etc. This text information may also provide various amounts of functionality. For instance, the text information may be indexable, searchable, or selectable (e.g. able to be copied to a text file); it may be related to video data, cue point information, or user data; it may be auto-generated based on audio or video recognition, patterns of user activity; it may be generated by acquiring from external sources, like Really Simple Syndication (RSS) feeds, or web logs (blogs); etc.

[0107] In another example, the video data may be associated with a set of cue point data relating to a set of cue points. Either as part of the GUI generation 316 or the video frame generation 318, cue point navigation buttons may be generated for each cue point. Further, these cue point buttons may load progressively along with the video data, so that cue points become visible or active only after all or part of their respective portion of the video data has loaded. Additionally or alternatively, cue points may be made active before the respective video data downloads. For example, when a cue point button is selected, video data may begin to download from the associated cue point location. When the desired video data has

loaded, other video data may continue to load in any desirable order (e.g. continue from that time position forward, continue from the beginning of the video file, etc.).

[0108] As the elements load (or in some embodiments, after the elements have loaded), the VEE may provide interactive editing capability. As part of this interactivity, the method 300 may have to poll for interactivity. It will be appreciated that in some embodiments, cue point edit mode will always be available, while other embodiments may require active entry into that mode, for example by polling for input. Polling may require, for example, waiting for a particular event from an input device, like a mouse or keyboard. Specifically, the method 300 may poll for entry into cue point edit mode 320. While polling for entry into cue point edit mode 320, the method 300 may continually determine whether the cue point edit mode has been entered 322. If the cue point edit mode has not been entered 322-1, the method 300 may continue to poll for entry into cue point edit mode 320.

[0109] If the cue point edit mode has been entered 322-2, the method 300 may proceed by receiving cue point data 324. Different data may be received 324 from different locations. For example, cue point data may be received 324 from the client by entry from an input device (e.g. keyboard, mouse, voice input, etc.), from a cue point database containing related attributes, by contextual inference (e.g. audio or image recognition from the video file, time or date information from the computer's Basic Input Output System (BIOS), etc.), or from any other useful source.

[0110] Further, depending on the type of cue point editing, different types or amounts of cue point data may be desired or required. In one example, if a client wishes to insert a new cue point, she may pause the video at a given playback location (e.g. by clicking a pause button or by beginning cue point entry in some other way) to assign the cue point a location, enter characters to assign the cue point a name, and submit or save the cue point data to a file. In another example, a client may enter a screen which may allow entry of different types of cue point data. Also in some examples, the video may continue to play while the cue point editing proceeds.

[0111] Even further, the cue point editor may be configured to receive information relating to multiple cue points. In one example, before entering the cue point editor, the client may flag a number of cue point locations. The cue point editor may then allow the client to enter information for each of the cue points in series, for all of the cue points in parallel, or in any other useful way. In another example, before entering the cue point editor, the client may

flag a number of cue points for editing. The cue point editor may then allow the client to enter information which relates to multiple cue points simultaneously.

[0112] Any or all cue point information may be entered for new cue points and or for modifying existing cue points. Further, receipt of cue point data 324 may involve receipt of a request to remove certain data or an entire cue point reference. Clients may have the same or different authorization within the VEE to add, modify, and/or delete cue point information.

[0113] During or after cue point information is received 324, the method 300 may update cue point associations 326. Updating cue point associations 326 may comprise storing, modifying, removing, or otherwise processing information stored in relation to cue points, video files, or other data. In one example, a client may choose to save new cue point information, at which point the method 300 may save the information to a relational database stored on a cue point server with an attribute pointing to the loaded video file. In another example, the name of the cue point may be saved to a database which records cue point names and the number of times those (or similar) names occur within a set of video files.

[0114] Further, cue point associations may be updated 326 in any useful way, including after submission, after exit from the VEE, or substantially in real time. In some embodiments, the information may be maintained within files on a server. These files may be continually or periodically updated during the cue point editing process. In other embodiments, the client may be working with very large files, large numbers of cue points, limited bandwidth, limited network reliability, or other technological limitations. In these environments, or for other reasons, it may be desirable or necessary to temporarily store all information affected by the editor in local files. These local files may reside in one or more locations, including as temporary files on the client's terminal or in temporary files on the server computer. The final updated information may then be saved to databases or other, more permanent, storage locations when the client uploads the information or exits the VEE.

[0115] Even further, the client may be able to edit multiple cue points at once. This may involve receiving cue point data 324 and updating cue point associations 326 for multiple cue point files either in series or in parallel.

[0116] When the cue point edit mode has received cue point data 324 and updated cue point associations 326, the method 300 may determine whether the client wishes to exit the cue point edit mode 328. If the client doe not wish to exit the cue point edit mode 328-1 (e.g.

the client wished to continue editing the cue point or cue points), the method 300 may continue to receive cue point data 324.

[0117] If the client wishes to exit the cue point edit mode 328-2, the method 300 may then determine whether the client wishes to exit the VEE 330. If the client does not wish to exit the VEE 330-1, the method 300 may return to polling for re-entry into the cue point edit mode 320. If the client wishes to exit the VEE 330-2, the method may terminate 332.

[0118] FIG. 3B provides an exemplary flow diagram of video editor environment method embodiments according to the invention. The method 340 begins by generating an upload form 342 for uploading a new video. The upload form may be a standard for stored as part of the VEE application or stored in a different location. Alternatively, the upload form may be dynamically generated 342 from one or more scripts. The scripts may acquire information used to generate the form 342 from one or more sources, including from the client, the host, a database, etc. The upload form may comprise one or more fields for receiving data relevant to uploading a file, for example a video file.

[0119] After the upload file has been generated 342, the method 340 may process the upload file 344. Depending on the type of upload file, there may be various ways to process the upload file 344. In one example, if the upload file is a formatted form viewable to a client, processing the upload file 344 may require processing the information within the form (e.g. by parsing, concatenating, searching, sorting, etc.). In another example the upload file may comprise various file fields which may be interpreted by one or more scripted algorithms (e.g. by a Common Gateway Interface (CGI) script) in the background of the method 340.

[0120] Using information from the upload form, and possibly also other information, the method 340 may then upload the video file 346. Uploading the video file 346 may transfer the video data and/or any related information from any useful location to any useful location. For example, the video data may be uploaded from the client's computer to a video server, from one video server to another video server, or from a video server to an application server where the VEE resides. Uploading the video file 346 may comprise any number of useful data processing algorithms, in addition to storing the video file. For example, during uploading 346, the method 340 may also create one or more video identifiers (e.g. a unique video identification number), convert the video data (e.g. translate the data to a given file format, encode or transcode the video file, down-sample the video file to lower the file size or resolution, split the video file into separate packets, normalize the audio volume, etc.), infer

related data (e.g. use various video or audio processing algorithms to identify certain types of data within the file), associate data to the video (e.g. store the client's name, create a timestamp for the video, etc.), or perform any other useful function.

[0121] During or after uploading the video file 346, the client may be redirected to a VEE 348. As part of redirecting the client to the VEE 348, the method 340 may associate the VEE to information relevant to editing the video file. In one example, the method 340 may redirect the client to the VEE 348 through a function call that loads the VEE application with variables, such as the video file name. In another example, the VEE application may load along with files (or pointers to files) containing video data, cue point data, GUI data, and any other relevant data.

[0122] In some embodiments, the method 340 may begin dynamic (or progressive) loading of the video data 350. Dynamic loading of the video data 350 may allow the client to play downloaded portions of the video while remaining portions of the video continue to download. This dynamic loading of the video data 350 may be represented on the VEE GUI as a progress bar or any other useful technique.

[0123] Further, in some embodiments, the method 340 may load associated cue point information 352. Loading associated cue point information 352 may involve loading pointers to locations within a cue point file or database, loading cue points with related data, or any other useful loading method. Additionally, loading associated cue point information 352 may be executed dynamically, so that cue points become visible or interactive only as certain information becomes available. For example, if the cue points relate to specific time positions within a video file, it may be desirable to activate cue points only after the related time positions of the video file load. Say a cue point refers to a location three minutes into a video file. It may be desirable in this case to load that cue point (or to make the cue point active for interaction by the client) only after the first three minutes of the video file have loaded.

[0124] Alternatively, cue points may be activated before their respective video data loads. For example, cue points may load when the video data begins to download. When a client selects a cue point before its respective video data has loaded, the video data may begin to progressively download from that cue point time position. When the video data for that cue point has finished loading, other video data may continue to load in any desirable order.

[0125] It will be appreciated that there are many ways to store and load this data within the context of the invention, and these ways may differ depending on the type of data being loaded. For example, the VEE GUI may load using function calls within the VEE application, the video may load 350 along with a video player application (like Adobe® Flash®) embedded in the VEE GUI, and cue point information may load 352 by executing scripts on one or more servers (e.g. CGI scripts, Structured Query Language (SQL) queries, etc.).

[0126] Once various interactive elements of the VEE have loaded, the method 340 may poll for interactivity 354. Polling for interactivity 354 may involve waiting for the client or some other interactor to interact with a GUI control, VEE elements, or any other method of receiving interactivity. For example, the GUI may comprise certain controls, like virtual buttons and knobs. The method 340 may poll for interactivity 354 by waiting for the client to interact with one of those GUI controls.

[0127] In some embodiments, the client may enter the cue point edit mode by pausing the video file at the location where she desires to insert a cue point. In these embodiments, the method 340 may determine whether the play button is active 356. For example, the VEE GUI may provide the client with a virtual play/pause toggle button, and determining whether the play button is active 356 may involve determining whether the toggle button is in "play" mode. If the play mode is active 356-1, the method 340 may play (or continue to play) the video file 358. It will be understood that, if the video is still being streamed or progressively downloaded, the method 340 may have to stop or pause video file playback while more video data loads. While the video continues to play and/or load, the method 340 may continue to poll for interactivity 354.

[0128] Of course, the client may enter the cue point edit mode in any useful way. For example, the client may click on a video image in the video frame to enter a cue point edit mode. For another example, the client may select a GUI control dedicated to providing entry into the cue point edit mode. For yet another example, the client may select a portion of the video progress bar to set a cue point entry location and enter the cue point edit mode. Further, the video may or may not pause upon entry into the cue point edit mode.

[0129] If the play mode is not active 356-2, the method 340 may determine whether the pause mode is active 360. If the pause mode is active 360-1, the method 340 may pause the video file and run the cue point handler 362. Pausing the video file and running the cue point

handler 362 may allow the client to add or edit the cue point information associated with the video file. The method 340 may allow the client to exit the cue point handler in any effective way, including, for example, by activating the play control or by selecting a submit control. When the client exits the cue point handler, the method 340 may continue to poll for interactivity 354.

[0130] If the play mode is not active 356-2, and the pause mode is not active 360-2, the method 340 may determine whether the exit mode is active 364. If the exit mode is not active 364-1 (e.g. there is no interactivity, according to the illustrated embodiments), the method 340 may continue to poll for interactivity 354. If the exit mode is active 364-2, the method 340 may determine whether the client would like to save 366 what she edited. If the method 340 determines that the client would like to save 366-1, the method 340 may save and exit 368-1. If the method 340 determines that the client would not like to save 366-2, the method 340 may exit 368-2 without saving.

[0131] FIG. 3C provides an exemplary flow diagram of cue point editor method embodiments according to the invention. The method 370 begins by loading a cue point editor 372. The cue point editor may be loaded 372 by loading a separate application, loading a function or process within another application, or in any other useful way. Further, the cue point editor may have been loaded previously such that loading the cue point editor 372 merely reactivates the process. For example, the cue point editor may be running as a background process, and loading the cue point editor 372 may move the process to the foreground.

[0132] Additionally, it will be appreciated that loading the cue point editor 372 may manifest to a client in any way which provides access to the client. In some embodiments, the cue point editor may load 372 into a separate window, a separate GUI, a separate frame within an existing window or GUI. In some other embodiments, the cue point editor may load 372 by making new GUI controls and/or fields appear, by activating existing GUI controls and/or fields, or by modifying an existing GUI or display to allow for client interactivity.

[0133] Either before, during, or after the loading of the cue point editor 372, the method 370 may determine the editing type 374 which is desired. Cue point editing types may include, for example, adding, modifying, or deleting cue point information. The method 370 may determine the editing type 374 in any effective way. In one example, loading the cue

point editor 372 may include passing a variable to represent the editing type. In another example, sometime after loading the cue point editor 372, the client may provide the cue point editing type, e.g. through some input device.

[0134] When the method 370 determines that the client desires to delete cue point information 374-1, the method 370 may detect or load relevant cue point properties 380. It will be appreciated that many types of cue point information may be possible, including textual information (e.g. name, description, etc.), time information (e.g. time position within the video file, time range associated with the video file, etc.), aesthetic information (e.g. font size, font color, icon, associated image, thumbnail information, etc.), hierarchical information (e.g. whether the cue point is the parent or child of another cue point), GUI information (e.g. cue point button size, physical location related to video frame, etc.), or any other useful information. The availability of these types of cue point information may depend on the client's authorization level, type of cue point, available information, and other parameters. Further, even where these types of information are available, they may or may not be accessible or editable to any or all clients.

[0135] Cue point information may also be loaded or detected 380 in any effective way. In some embodiments, some information may be stored along with a cue point identifier. For example, cue point "CP_0001" may be stored as an entry in a relational database along with various related attributes. Those attributes may include some or all of the various types of cue point information. In other embodiments, information may be detected from one or more contexts. In one example, say a client paused playback of a video file before entering the cue point editor. The method 370 may be able to use the currently loaded video file name and the current time position of the video playback to determine which cue point is being edited and other related information. In another example, the method 370 may be able to use video, audio, text, or other recognition algorithms to infer content-related information. In yet another example, the video file may contain certain header information which provides cue point information to the method 370.

[0136] When loading or detecting cue point information for deletion 380-1, the information may be retrieved from any useful location. When a cue point is selected for deletion, the method 370 may set up a pointer to or may download information associated with that cue point (e.g. stored in relation to that cue point). Depending on certain parameters, the client

may delete some or all of the information associated with the cue point, or the cue point itself.

[0137] Additionally, the information for deletion may load into any useful environment. In some embodiments, the client may not be able to delete certain information without deleting the entire cue point. In these embodiments, the client may only have access to some interface element which allows deletion, without having access to further options. In one example, a GUI may provide a virtual "delete" button next to a cue point access button, which deletes the adjacent cue point when pressed (e.g. clicked with a mouse). In another example, after selecting a cue point, the client may be able to press the "delete" button on her keyboard to delete the selected cue point. In other embodiments, the client may be able to delete certain cue point information without deleting the entire cue point record. In those embodiments, it may be necessary or desirable to provide the client with a way to access that information. For example, a new GUI, window, or frame, or new elements in existing display elements may be required.

[0138] Once the cue point information is ready to be deleted, the method 370 may delete the information 390. It will be appreciated that many types of deletes may be desirable. In some embodiments, the client will delete all or part of the cue point information, and the method 370 may remove the information from the location where it is stored. In other embodiments, other deletes may be possible. In one example, it may be desirable to delete some information specifically relating to a cue point, while retaining certain template information. In a second example, a client may keep the name of the cue point as part of a list, but remove all the other information associated with the cue point. In a third example, a client may retain the information associated with a cue point, but delete the pointer or association between the cue point and the video file or other cue points.

[0139] Before deleting the information 390, the method 370 may ask for verification from the client. In some embodiments, the method 370 may prompt the client to take multiple steps before effectuating the delete. For example, after clicking a "delete" button, a dialog box may appear on the screen, asking "Are you sure you want to delete the cue point?"; and the client may be required to click a "Yes" button before the method 370 will delete the cue point. In other embodiments, the method 370 may determine whether the client has sufficient authority to delete the cue point information before effectuating the deletion. In other embodiments, the method 370 may temporarily place deleted files into a temporary file,

deleting the files permanently only after the occurrence of some other event. For example, deleted files may be placed in a "trash can" file until an authorized client empties the "trash can" file.

[0140] After the cue point information is deleted 390, the method 370 may terminate 398. Termination 398 may involve a number of steps. For example, the method 370 may exit the client from the cue point editor. Additionally, the method 370 may terminate the process which is running the cue point editor. Alternatively, the method 370 may close the application, but keep the process running in the background.

[0141] In many cases, the method 370 may determine that the client desires to add or modify cue point information 374-2. There may exist may types of addition or modification of cue point information. Adding cue point information may include such cases as creating a new cue point, copying or saving an existing cue point's information into a new cue point entry, duplicating an existing cue point and associating the duplicate either with a new time position or another video file, creating a new cue point from a template or default, creating a new cue point within a hierarchical structure, or any useful type of creation of cue point information. Modifying cue point information may include such cases as changing various attributes of an existing cue point (e.g. the cue point's name or time position), changing the associations between an existing cue point and either a video file or other cue point information, or any other useful type of modification to existing cue point information.

[0142] When the method 370 determines that the client desires to add or modify cue point information 374-2, the method 370 may determine the level of client interactivity 376. In various embodiments, levels of client interaction may include no interactivity, full interactivity, and one or more levels of partial interactivity in-between. The method may determine the level of interactivity 376 in different ways. In one example, the client may dictate the level of interactivity by providing that level to the method 370 from some input device. In another example, different levels of client may automatically be provided with different levels of interactivity (e.g. novice clients may be provided with no interactivity, while advanced clients may be provided with full interactivity). In yet another example, the level may be determined 376 based on available information, or the ability of the method 370 to provide the interactivity desired.

[0143] In the illustrated embodiments, there are three levels of interactivity: none 376-1, full 376-2, and partial 376-3. In some cases, the method 370 may determine that no

interactivity will be provided 376-1. In these cases, the method 370 may detect and/or load all desired or required cue point properties 380-2 in any effective way from any useful source. In some embodiments, when a cue point is modified, the method 370 may search for attribute information in a relational database which is stored in relation to an identifier associated with the cue point to be modified.

[0144] In other embodiments, information may be inferred or detected from various types of contextual information. For example, before loading the cue point editor 372, a different method may have paused the video file at two minutes. The method 370 may then be able to infer that the time position for a new cue point should be two minutes, and the new cue point should be associated with the video file which was being played. In another example, the method 370 may attribute the new cue point with a time and date of creation, which it may be able to infer based on the system clock of a computer performing the method 370. In yet another example, the method 370 may be able to associate certain permissions and a creator name with the new cue point based on the login information of the client using the method 370. In still another example, one or more cue point locations may automatically be identified (e.g. by audio or video recognition).

[0145] When the method 370 determines that full interactivity will be provided 376-2, the method 370 may generate a cue point information form 382. Generating the cue point information form 382 may involve any process by which the method 370 may solicit the desired or required cue point data from a client. It will be appreciated that in different cases, different types of cue point information may be desired or required as part of the cue point creation or modification.

[0146] In some embodiments, the method 370 may open a new window, frame, or portion of the GUI which may provide various fields and/or controls relating to different types of cue point information. The client would then be able to input cue point information into the form by using some or all of these fields and/or controls. Further, the fields and/or controls may be tailored or may have restrictions based on the associated type of cue point information. In one example, a client may enter the cue point name in a text string field which allows a maximum length of thirty characters. In another example, a client may select a cue point name from a list of common or acceptable cue point names provided in a drop-down list. In yet another example, the client may provide the cue point name by saying the name into a

microphone (after which point the method 370 may use various voice-recognition algorithms to convert the audio into a textual representation of the cue point name).

[0147] In some cases, the method 370 may determine that partial interactivity will be provided 376-3. In these cases, the method 370 may detect and/or load some of the desired or required cue point properties 380-2 in any effective way from any useful source. After detecting or loading some cue point properties 380-2, the method 370 may generate a cue point information form 384 to solicit the remaining desired or required cue point information from a client.

[0148] Whether the method 370 generates a full cue point information form 382 (the method 370 determines that full interactivity will be provided 376-2) or a partial cue point information form 384 (the method 370 determines that partial interactivity will be provided 376-2), the method may then receive cue point information from a client. The client may be any effective provider of the desired or required cue point information, including a human client of a client terminal, a computer (e.g. automated or artificial intelligence) client of a client terminal, an application running compatible and interfacing processes or functions, or any other information provider.

[0149] It will be appreciated that there are many ways to solicit input from the client for this purpose. For example, there are many types of GUI fields and controls (e.g. text fields, radio buttons, sliders, check boxes, drop-down menus, etc.), many types of input devices (e.g. keyboard, mouse, microphone, scanner, optical character recognition system, writing tablet, computer script, etc.), and many types of potentially editable cue point information. Some or all of these options may be provided or limited, possibly based on various factors, including a component's technical capabilities, a client's permissions, or a cue point's type.

[0150] It will further be appreciated that the level of interactivity determination 376 may occur multiple times and for various reasons, and that the result may change over time. In some embodiments, the method 370 may initially determine that full interactivity will be provided 376-2 and generate a cue point information form 382. At some later time, the method 370 may determine that certain information will be provided automatically through detection or loading from another source. For example, as the client enters cue point information into a cue point information form, the method 370 may determine that certain other information may be automatically generated. For another example, after providing the

cue point information form to the client, the client may select a button which automatically fills in certain fields of the form.

[0151] After cue point information is received from the client 386, the method may process some or all of the cue point information 388. In some embodiments, audio inputs may have to be converted into a text format for storage in a relational database. In other embodiments, sets of data may be encrypted, encoded, transcoded, or condensed (either be removing information, by down-sampling, by using a codec to reduce the file size, or in some other way) before storage. In yet other embodiments, portions of the received data may affect the way cue point data is stored, manipulated, interpreted, or otherwise handled by other methods or systems. For example, some of the cue point information may require new associations to be created in a relational database, new GUI elements to be generated or displayed, etc.

[0152] After the method 370 receives all the desired or required cue point properties, the method 370 may generate and save the cue point 392. In some embodiments, the method may ask for verification from a client before generating and/or saving the cue point 392. In other embodiments, the method 370 may only generate and/or save the cue point after the client submits the information. For example, the cue point information form may be displayed on a client terminal while the cue point editor resides on a server terminal. In this example, the client may be required to submit the form over a network to the server computer before the cue point editor has the information it needs to generate the cue point.

[0153] Further, the method 370 may save the cue point in any effective way in any location. For example, the method 370 may perform a database insert function to insert the new or modified cue point information into an existing cue point database, which may be stored on a server. Alternately, the method 370 may write the information to the associated video file in a way which may be interpreted by another application.

[0154] After generating and saving the cue point 392, the method 370 may determine whether or not the client would like to continue 396. This determination 396 may be performed, for example, by transmitting or displaying a prompt for the client to select whether or not to continue. If the method 370 determines that the client would like to continue 396-1, the method 370 may return to any useful step.

[0155] In some embodiments, the method 370 may continue to allow editing of the cue point information, or renew editing access to the cue point information. In other

embodiments, the method may re-determine how much interactivity to provide 376 and proceed from there. In yet other embodiments, the method 370 may re-open certain cue point information for editing and keep other information closed to editing. For example, the method 370 may provide a "clear form" GUI element which allows the client to clear the information provided in the cue point information form. In some cases, the "clear form" element may protect certain fields, like the name and time position of the cue point, and clear only other information. Of course, in yet other embodiments, the method 370 may default to either continuing in editing mode or not continuing unless the client selects otherwise.

[0156] If the method 370 determines that the client would like to continue 396-2, the method 370 may then exit the cue point editor 398. It will be appreciated that there are many ways to exit an application. In one example, the application may close completely, and processes associated with the application may terminate. In another example, the application may close as viewed by the client, but the processes associated with the application may continue to run on a server computer and/or in the background of the client terminal. It will also be appreciated that the method 370 may wait to generate or save a cue point or cue point information until the cue point editor exits 398.

[0157] In some embodiments of the invention, a client may use an embodiment of a video editing environment. The client may access and use the video editing environments in any effective way, including by way of a client terminal. FIG. 4 provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of video editing environments.

[0158] The system 400 comprises a client terminal 410 with various components. These components may include a central processor 420. The central processor 420 may include one or more microprocessors or any other effective element for controlling the various components of the client terminal 410 and for processing client terminal data. Components of the client terminal 410 may include network devices 422, input devices 424, output devices 426, data stores 428, or any other useful components.

[0159] Network devices 422 may include wired or wireless transceivers, encoders or decoders, network ports, antennae, or any other devices which facilitate network communications. Input devices 424 may include keyboards, mouse peripherals, track balls, touch pads, microphones, optical recognition devices, input ports, or any other devices which facilitate input from a client. Output devices 426 may include display screens, light emitting

diodes (LED's), output ports, printers, or any other devices which facilitate outputting information to a client. Data stores 428 may include hard drives, random access memory (RAM), memory cards, magnetic or optical disks, or any other devices which facilitate the storage of data.

[0160] It will be appreciated that many types of client terminals 410 exist, and the components and client of the client terminal 410 may differ depending on the type. For example, if the client terminal 410 is a laptop computer, the client is likely a human client who interfaces with the terminal via various types of input devices 424 and output devices 426. In another example, if the client terminal 410 is an automated computer system, the client may be a computer process which interfaces with the terminal via various scripts, functions, algorithms, etc. In this example, it would be unnecessary in some cases to provide human-usable input devices 424 and output devices 426, but may remain necessary to provide other types of input devices 424 and output devices 426, like ports, processors, etc.

[0161] The client terminal 410 may interface at least through its network device 422 to a network 430. The network 430 may be one or more of any type of wired or wireless, public or private, encrypted or unencrypted network. In one example, the network 430 may comprise the Internet. In another example, the network 430 may comprise a set of data transmission channels, like a cable. In yet other examples, the network 430 may comprise any number of computers, configured as centralized or decentralized peer-to-peer networks, ad hoc networks, mesh networks, or any other useful configuration. For instance, the network 430 may comprise two terminals connected to one another by a Universal Serial Bus (USB) cable, each performing server functions for the other computer. Using the network 430, the client terminal 410 may interact with a video editing environment 440.

[0162] FIG. 5 provides an exemplary flow diagram summarizing methods relating to client terminal interactions with video editor environments in various embodiments of the invention. The method 500 may begin when a client enters a VEE 510. The client may enter the VEE 510 by executing an application invoking various software and/or hardware commands, accessing a webpage, or in any other useful way.

[0163] Prior to entering the VEE 510, the method 500 may require certain set-up steps. For example, the client may access a login environment 502. In certain embodiments, the client may access a login environment 502 to provide login information 504 to the method 500. In

some of these embodiments, providing the login information 504 assists the method 500 in determining the level of access of the client.

[0164] For example, the method 500 may determine based on the login information whether the client has permission 504 to access all or part of the VEE. If the client does not have permission 504-1 to access the VEE or desired files, the method 500 may terminate 532 (e.g. the login may be denied). If the client does have permission 504-2 to access the VEE or the desired files, the method 500 may continue to load the VEE 510.

[0165] Once the VEE is loaded 510, the method 500 may determine whether the client is attempting to use a new or existing video 512. If the client is attempting to use a new video 512-1, the method 500 may have the client provide the new video information 514-1, for example by uploading, downloading, transferring, or compiling the video data. If the client is attempting to use existing video 512-2, the method 500 may acquire or load the existing video information 514-2 from wherever it is stored, for example from a video server.

[0166] The method 500 may then allow the client to view the video data 520 in any useful way. In some embodiments, the method 500 may generate a video frame either along with or as part of a VEE GUI. The client may use these video elements (e.g. the video frame and various GUI controls) to view or manipulate the video data.

[0167] Further, the method may provide the client with a cue point edit mode. At any point, the method may determine whether the client is entering the cue point edit mode 522. It will be appreciated that in some embodiments, the cue point edit mode will always be available, while other embodiments may require active entry into that mode. For example, in some embodiments, the client may enter the cue point edit mode by using cue point edit mode functions (e.g. by beginning to type information into a cue point edit field), while in other embodiments, the client may enter the cue point edit mode by selecting a navigational control which directs the client specifically to that mode.

[0168] If the cue point edit mode has not been entered 522-1, the method 500 may continue to allow the client to view video data 520 and determine whether the client is entering the cue point edit mode 522.

[0169] If the cue point edit mode has been entered 522-2, the method 500 may have the client provide cue point data 524. Different data may be provided 524 in different ways, for example via a client terminal. The method 500 may then have the client submit the cue point

information 526. After (or while) cue point information is provided 524 or submitted 526, the method 500 may have to process the cue point information, update cue point associations, or perform other steps.

[0170] When the client has provided 524 and submitted 526 cue point information, the method 500 may determine whether the client wishes to exit the cue point edit mode 528. If the client doe not wish to exit the cue point edit mode 528-1 (e.g. the client wished to continue editing the cue point information or cue points), the method 500 may allow the client to continue to provide cue point information 524.

[0171] If the client wishes to exit the cue point edit mode 528-2, the method 500 may then determine whether the client wishes to exit the VEE 530. If the client does not wish to exit the VEE 530-1, the method 500 may allow the client to return to any useful step, for example to viewing the video data 520. If the client wishes to exit the VEE 530-2, the method may terminate 532.

[0172] FIG. 6 provides an exemplary screen shot of an embodiment of a video editing environment as viewed by a client terminal according to the invention. The cue point editor screen 600 may comprise a number of elements for different purposes. It will be appreciated that many types of cue point editor screens are possible within the embodiments of the invention. As such, the cue point editor screen 600 illustrated in FIG. 6 is for illustrative purposes only and should not be construed to limit the scope of the invention.

[0173] The cue point editor screen 600 comprises a video frame 602. The video frame 602 may be configured to display video data and to allow for interactive video manipulation. The video frame 602 may comprise a video footage area 604, a comment area 606, a navigation area 608, and any other useful areas.

[0174] The comment area 606 may display text, images, videos, or other information describing or adding to the footage seen in the video footage area 604. As illustrated, the comment area 606 may span the full width and some percentage of the height of the video frame 602. Further, as illustrated, the comment area 606 may be overlaid on the video footage with a semi-transparent background, so the video footage is not totally obscured by the comment area 606. Of course, the comment area 606 may have any size, shape, color, transparency, or other useful characteristic.

[0175] Additionally, the comment area 606 may respond to interaction by a client or other function. In one example, the comment area 606 may normally be hidden, minimized, or otherwise obscured in the GUI. The comment area 606 may then appear (e.g. "pop up") on the screen when a client places a mouse pointer over a cue point location indicator 616. In other examples, the text information in or associated with the comment area 606 may be indexable, searchable, or selectable (e.g. able to be copied to a text file); it may be related to video data, cue point information, or user data; it may be auto-generated based on audio or video recognition, patterns of user activity; it may be generated by acquiring from external sources, like Really Simple Syndication (RSS) feeds, or web logs (blogs); etc. In yet other examples, the comment area 606 may comprise interactive elements, like hyperlinks or GUI elements, which allow the client to interact with the comment area 606 (e.g. to navigate to a different location, to open the information into a new frame, to acquire related information (like other users' comments about the comment), etc.).

[0176] The navigation area 608 may comprise any number of navigation controls for navigating, processing, manipulating, or otherwise affecting video or audio elements. As illustrated, the navigation area 608 may comprise virtual buttons, like a "pause" button 610. Further, the navigation area 608 may comprise a video progress bar 612 which may show various information relating to the progress of the video, e.g. loading or playback. The video progress bar 612 may comprise other elements relating to video progress, time positions, or other useful information. For example, the video progress bar 612 may comprise a playback progress indicator 614, representing the current time position of the video playback. As illustrated, the time position is about nine percent through the video footage (0:34 out of 6:13), so the playback progress indicator 614 is about nine percent of the distance from the beginning of the video progress bar 612 to the end. The video progress bar 612 may also show various cue point location indicators 616. As illustrated, three cue point location indicators 616 are shown representing the three cue points already created (see below). The navigation area 608 may also comprise informational elements, such as a time indicator 618. The time indicator 618 may display the current time position in the video footage, the total time of video footage in the video file, time remaining for playback, or other useful information.

[0177] In some embodiments, these other elements may be used as interactive controls. For example, it may be possible to drag the playback progress indicator 614 to change the current time position of video footage being displayed in the video footage area 604.

Similarly, it may be possible to drag cue point location indicators 616 to change the time positions associated with their respective cue points. Further, it may be possible to lock various controls to prevent their adjustment in certain environments. For example, it may be desirable to lock the cue point location indicators 616 for all cue points except the one currently being edited.

[0178] It will be appreciated that many types of areas, controls, and other elements are possible. For example, the navigation area 608 may also comprise other video controls (e.g. stop, fast forward, rewind, rotate, zoom, etc.), audio controls (e.g. volume, pan, fade, equalizer controls, audio level indicators, etc.), etc. Further, it may be possible to add or modify the elements of the video frame 602. For example, it may be possible to drag the comment area 606 to other locations, change its size, etc.

[0179] The cue point editor screen 600 may also comprise a cue point listing area 620. The cue point listing area 620 may list cue points which are existing, currently being added, or any other useful information. For example, as illustrated, the cue point listing area 620 lists three existing cue points 622, and one cue point currently being inserted 624 ("EXTER_"). The cue point listing area 620 may also comprise navigation controls or other elements. For example, if more existing cue points 622 are listed than fit within the cue point listing area 620, a scroll bar 626 may be provided to allow the client to scroll through the entire list.

[0180] The cue point editor screen 600 may also comprise a cue point parameters area 630. The cue point parameters area 630 may comprise any number of interactive and/or informational controls and/or fields, which are useful for viewing and editing cue point information. As illustrated, the cue point parameters area 630 comprises a cue point name field 632 for entering the cue point name, a time position field 634 for entering the cue point time position, and a comment text field 636 for entering comment text. Additionally, as illustrated, various virtual buttons are provided, including a "Lookup Name from DB" button for allowing a client to look up an appropriate cue point name from a list of cue point names stored in a database; an "Associate Cue Point" button for allowing a client to associate the cue point being edited with another video file or another cue point (e.g. in a hierarchy); a "Format Text Box" button for allowing a client to view more options for formatting the text and other attributes of the comment area 606; an "Advanced Options" button for allowing a client to view advanced options for cue point editing, GUI display, etc. (e.g. for changing the icon associated with a viewpoint, changing a thumbnail associated with a cue point or video

file, changing the size and shape of cue point editing screen 600 elements, etc.); a "Cancel" button for allowing a client to cancel the current cue point editing; and a "Save" button for allowing a client to save the current cue point editing and possibly submit the cue point information. It will be appreciated that any number and type of fields and controls are possible.

[0181] The cue point editor screen 600 may also comprise other areas, like a cue point tools area 640. The cue point tools area 640 may comprise various fields and controls for editing cue points. For example, as illustrated, the cue point tools area 640 comprises virtual buttons for inserting, modifying, and deleting cue points. Additionally, as illustrated, the cue point tools area 640 comprises virtual buttons for sorting cue points and for toggling cue point hierarchies. As shown, there may also be informational fields which show information, like the current status associated with a control. For example, the cue point tools area 640 shows that the cue points listed in the cue point listing area 620 are currently sorted by their associated time positions within the video file and that cue point hierarchies are turned off.

[0182] Other controls may also be part of the cue point editor screen 600. For example, there may be other navigational controls for allowing the client to move between applications, between screens of applications, or to exit the cue point editor. As illustrated, there is a "Go to Cue Point Bank" button for allowing the client to navigate to (e.g. to open a new window with) a listing of entries from a cue point bank database; a "Go to Viewer Mode" button for allowing the client to navigate to a video playback environment (e.g. simulated or real) to be able to preview the effects of the current cue point editing; and a "Save and Exit" button for allowing the client to save changes made in the cue point editor and exit the application.

[0183] In the illustrative case, a client is editing a video file containing footage of a house for sale. The client desires to add cue points at strategic locations within the video file to allow a potential buyer to be able to more easily navigate the playback of the video file. Previously, the client had inserted cue points at three locations within the video file. These locations correspond to time positions in the video file where the video information related to the neighborhood, foyer, and living room, respectively. The client named these cue points "NEIGHBORHOOD," "FOYER," and "LIVING ROOM," respectively.

[0184] Now, the client wishes to insert a cue point at 34 seconds, where the video footage begins to describe the exterior of the house (see the illustrative footage in the video footage

area 604). The client used a client terminal to view the video file in a video editing environment, and entered the cue point editor mode by pausing playback of the video file at 34.03 seconds (see the video progress indicator 614 and the time indicator 618, showing the current elapsed playback time rounded to 34 seconds). As illustrated, the cue point editor automatically generated a portion of the cue point information needed to create the cue point. For example, the cue point editor recorded the time position where the video was paused and is automatically displaying that information in the "Time" field 634. Further, since the cue point listing area 620 is currently sorting the listed cue points by time position (see the information field next to the "Sort" button in the cue point tools area 640), the cue point editor has created a placeholder for the cue point to be inserted in the correct sort position within the cue point list.

[0185] The client then began entering information into the cue point editor. As shown, the client has already entered the comment text associated with the cue point (see the "Text" field 636 and the comment area 606). The client is currently in the middle of entering the cue point name "EXTERIOR," such that it currently reads "EXTER_" (the "_" representing a cursor location for the next character to be entered) (see the "Name" field 632). Also, as shown, the name of the cue point in the cue point listing area 620 is being automatically updated substantially in real time to match the name being entered in the "Name" field 632.

[0186] When cue point information is received, it may be stored in a data structure. FIG. 7 provides an exemplary data structure for use with various embodiments of video editing environments according to the invention. The data structure 700 may be any type of data structure useful for storing cue point information.a relational database comprising various attributes related to various entries in the database.

[0187] In the illustrated embodiment, the data structure 700 a relational database comprising various attributes related to various entries in the database. Each row 710 may represent a video identifier. The video identifier may be any data element capable of representing the identity of video data or a video file. In some embodiments, the first row 710-1 refers to a video file identified by the video identifier "VID_0001" 730.

[0188] Each column 720 in the illustrative database may represent a cue point associated with the video file identified in a corresponding row 710. In some embodiments, the first column 720-1 refers to a first cue point associated with respective video identifiers (e.g. the

cue point with the time position closest to the beginning of the video data). For example, for the video identifier "VID_0001" 730, the first cue point is "EXTERIOR" 740.

[0189] It will be appreciated that many data structures are possible within the scope of the invention. Further, it is clear that many types of cue point information may be associated with a cue point. As such, it may be necessary to provide one or more data structures which allow cue point information to be associated with its associated cue point. For example, the cue point "EXTERIOR" 740 refers to a specific time position in a video file. Additionally, it may be necessary to differentiate between the cue points "EXTERIOR" 740 (associated with video identifier "VID_0001" 730) and "EXTERIOR" 750 (associated with video identifier "VID_0002" 760). As such, it may be necessary to associate those two cue points with unique identifiers.

[0190] It will be appreciated that many types video editing environments are possible for handling the many types of video information and many types of cue point information, all within the scope of the invention. As such, the above descriptions of embodiments relating to video editing environments in FIGS. 3 – 7 should not be construed as limiting the scope of the invention.

Video Playback Environments

[0191] FIG. 8A provides an exemplary flow diagram summarizing methods relating to video playback environments in various embodiments of the invention. The method 800 may begin by loading a video playback environment (VPE) 810. Loading the VPE 810 may involve executing an application invoking various software and/or hardware commands. It will be appreciated that the VPE may be loaded 810 in any useful way to provide the desired results. For example, the VPE may load as a script in the background of a webpage, as a server-level application, as a client-level application, or with various components of the application loading in different ways.

[0192] Prior to loading the VPE 810, the method 800 may require certain set-up steps. For example, the method 800 may process login 802 of a client. In certain embodiments, the method may process the login 802 to maintain records of the clients of the method 800. For example, it may be desirable to know who uses the method 800 and how often, or which files or applications are accessed most often.

[0193] In other embodiments, processing the login 802 may require that the client enters certain login information to determine the client's level of authorization. For example, it may be desirable to limit access to the VPE only to certain types of clients. Similarly, it may be desirable to open access to the VPE, but limit access to certain files. In the latter case, it may be necessary as part of processing the login 802 to acquire information from the client regarding which files the client intends to access. In these embodiments, the method 800 may determine based on the login information whether the client has permission 804 to access all or part of the VPE. For example, the system may deny access based on stored attributes associated with the client (e.g. a level of authority attribute), inferred attributes based on extrinsic information (e.g. time of day, geographic location associated with the client's Internet Protocol address, etc.), incorrect provided information (e.g. client name and password do not match those on file, etc.), technical information (e.g. client terminal does not meet the minimum system requirements), or any other information which may be used to determine level of access.

[0194] If the client does not have permission 804-1 to access the VPE or the desired files, the method 800 may terminate 832. If the client does have permission 804-2 to access the VPE or the desired files, the method 800 may continue to load the VPE 810.

[0195] Once the VPE is loaded 810, the method 800 may load video data 812 for viewing. Video data may be loaded 812 in any useful way and from any source where video data may be located. In some embodiments, video data may exist in a data store, like a database or video file. In these embodiments, the method 800 may download the data from one or more of those locations. In these and other embodiments, video data may be resident in the same location as the VPE or previously loaded. The method 800 may prepare the video for playback in any useful way, including reloading video data, loading additional video data, compiling loaded video data, or translating video data.

[0196] The method 800 may then generate a VPE GUI 814. This interface may comprise any graphical, textual, audio, or other data which is desirable or necessary for providing interface capabilities to a client. It will be appreciated that the GUI does not require any graphical interface elements. For example, it may be possible to create an interface which uses only text, sound, or some other interface capability.

[0197] It will be appreciated that the GUI may be generated 814 in any useful way for providing a useful interface to the VPE. For example, the GUI may be generated 814 as a

webpage on a client's web browser, as a frame within a webpage, as a dedicated client-level application on the client's terminal (with the VPE itself running either at the client- or server-level), or as a background script to be executed by another application (e.g. as Visual Basic commands for an interpreter which may use those commands to generate the GUI).

[0198] The GUI may comprise such useful elements as a video frame for displaying video information (e.g. an imbedded video player), video controls (e.g. play, pause, fast forward, rewind, volume control, etc.), navigational buttons (e.g. an "Exit the VPE" button), or informational text fields. Further, the GUI may comprise any other desired elements, such as aesthetic components (e.g. borders, logos, images, etc.), or advertisements. In certain embodiments, the GUI elements will be embedded within the context of another environment (e.g. webpage, application, etc.).

[0199] It will be appreciated that the GUI elements may be dependent on or independent of aspects of the loaded VPE instance. In some embodiments, the VPE GUI may look identical, regardless of any external information being passed to it (except, of course, the actual video file being played, the specific cue point information, etc.). In other embodiments, the VPE GUI may adapt or modify based on extrinsic information, like attributes of the client, the video file, the cue point information, etc. For example, the VPE may display tailored advertisements to the client based on any useful type of information accessible to the VPE (e.g. client data, video information, cue point information, comment information, algorithm results, patterns of client activity, etc.).

[0200] Either separately or as part of the GUI, the method 800 may generate a video frame 816 for displaying video information. Generating the video frame 816 may utilize, comply with, or be compatible with a number of different technologies. For example, different video files may be encoded or transcoded or stored in different formats or using different public or proprietary algorithms or standards. Further, video files may load in various ways, including as a complete file, streaming, or progressive. Progressive loading of video files, for example, allows the video frame to begin playing the portion of video data which has already loaded while the remainder of video data continues to load.

[0201] The video frame may also comprise its own GUI elements, including video and audio controls, and text fields. For example, the video frame may generate 816 along with a virtual play/pause button, volume controller, equalizer, etc. Further, the video data may comprise and/or be associated with other data, including text descriptions, audio information,

and cue point information. Some or all of this information may also be displayed within the video frame, or locations for displaying this information may be generated along with the video frame.

[0202] In some embodiments, the video frame may comprise a field spanning a lower portion of the frame in which text information may appear (e.g. subtitles, captions, or comments). This field may be independently controllable or editable, for example to take up the lower fifth of the frame, to have a thirty-percent translucent grey background with black text, etc. The field may display text, images, videos, or other information describing or adding to the footage seen in the video frame. Additionally, the field may respond to interaction by a client or other function. In one example, the field may normally be hidden, minimized, or otherwise obscured in the GUI; and may then appear (e.g. "pop up") on the screen when a client places a mouse pointer over some GUI control. In other examples, the text information in or associated with the field may be indexable, searchable, or selectable (e.g. able to be copied to a text file); it may be related to video data, cue point information, or user data; it may be auto-generated based on audio or video recognition, or patterns of user activity; it may be generated by acquiring from external sources, like Really Simple Syndication (RSS) feeds, or web logs (blogs); etc. In yet other examples, the field may comprise interactive elements, like hyperlinks or GUI elements, which allow the client to interact with the field (e.g. to navigate to a different location, to open the information into a new frame, to acquire related information (like other users' comments about the comment), etc.).

[0203] In some embodiments, the video data may be associated with a set of cue point data relating to a set of cue points. Either as part of the VPE GUI generation 814 or the video frame generation 816, cue point navigation buttons may be generated for each cue point. Further, these cue point buttons may load progressively along with the video data, so that cue points become visible or active only after their respective portion of the video data has loaded. Alternatively, cue points may be activated before their respective video data loads. For example, cue points may load when the video data begins to download. When a client selects a cue point before its respective video data has loaded, the video data may begin to progressively download from that cue point time position. When the video data for that cue point has finished loading, other video data may continue to load in any desirable order.

[0204] As the elements load (or in some embodiments, after the elements have loaded), the VPE may provide interactive video control capability. As part of this interactivity, the method 800 may have to poll for interactivity 818. For example, the method 800 may continually determine whether one or more of various GUI controls or other interactive elements are being interacted with. This interaction may occur in any useful way. For example, a client may interact be using a mouse to click on a virtual GUI button.

[0205] In the illustrated embodiments, the method 800 may determine whether a "play" control (e.g. a virtual "play" button) is active 820. For example, the VPE GUI may provide the client with a virtual play/pause toggle button, and determining whether the play button is active 820 may involve determining whether the toggle button is in "play" mode. If the play mode is active 820-1, the method 800 may play (or continue to play) the video file 822. It will be understood that, if the video is still being streamed or progressively downloaded, the method 800 may have to stop or pause video file playback while more video data loads. While the video continues to play and/or load 822, the method 800 may continue to poll for interactivity 818.

[0206] If the play mode is not active 820-2, the method 800 may determine whether a cue point is active 824. For example, the GUI may provide a set of cue point navigation buttons which may be activated by clicking on them using a mouse or other input device. If the cue point is active 824-1, the method 800 may jump to a time position in the video file 826 associated with the active cue point. After the method 800 jumps to the time position in the video file 826, the method may continue to play the video file 822 from that time position. While the video continues to play 822, the method 800 may continue to poll for interactivity 818.

[0207] It will be understood that, if the video is still being streamed or progressively downloaded, the method 800 may be affected. In some embodiments, the method 800 may have to stop or pause video file playback while more video data loads before it may jump to the time position in the video file 826. In other embodiments, if a cue point becomes active 824-1 before its respective video data downloads, the method 800 may still jump to the associated time position in the video file 826 and continue to download video data from that time position. When the video data for that cue point has finished loading, other video data may continue to load in any desirable order.

[0208] If the play mode is not active 820-2, and a cue point is not active 824-2, the method 800 may determine whether the exit mode is active 828. If the exit mode is active 828-1, the method 800 may terminate 830.

[0209] If the exit mode is not active 828-2, the method 800 may determine whether another command is active 832. It will be appreciated that many types of commands are possible. For example, the VPE may provide interactivity with the video data (e.g. by providing GUI controls like pan, fast forward, rewind, pause, stop, etc.), with the audio data (e.g. by providing GUI controls like volume controls, equalizer controls, balance or fader controls, etc.), or any other desirable client interactivity. If the method 800 determines that another command is active 832-1, the method 800 may respond to the command 834. For example, if the command is the result of interactivity with a volume control, the response to the command may be to increase the volume of the audio output associated with the video data. If the method 800 determines that no other command is active 832-2 (e.g. the client is not interacting with the VPE), the method 800 may continue to poll for interactivity 818.

[0210] In some embodiments of the invention, a client may use an embodiment of a video playback environment. The client may access and use the video editing environments in any effective way, including by way of a client terminal. FIGS. 9A and 9B provide exemplary system diagrams illustrating embodiments of client terminals for use with various embodiments of video playback environments.

[0211] FIG. 9A provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of system-level video playback environments. The system 900 comprises a client terminal 910 with various components. These components may include a central processor 920. The central processor 920 may include one or more microprocessors or any other effective element for controlling the various components of the client terminal 910 and for processing client terminal data. Components of the client terminal 910 may include network devices 922, input devices 924, output devices 926, data stores 928, or any other useful components.

[0212] Network devices 922 may include wired or wireless transceivers, encoders or decoders, network ports, antennae, or any other devices which facilitate network communications. Input devices 924 may include keyboards, mouse peripherals, track balls, touch pads, microphones, optical recognition devices, input ports, or any other devices which facilitate input from a client. Output devices 926 may include display screens, light emitting

diodes (LED's), output ports, printers, or any other devices which facilitate outputting information to a client. Data stores 928 may include hard drives, random access memory (RAM), memory cards, magnetic or optical disks, or any other devices which facilitate the storage of data. It will be appreciated that many types of client terminals 910 exist, and the components and client of the client terminal 910 may differ depending on the type.

[0213] The client terminal 910 may interface at least through its network device 922 to a network 930. The network 930 may be one or more of any type of wired or wireless, public or private, encrypted or unencrypted network. In one example, the network 930 may comprise the Internet. In another example, the network 930 may comprise a set of data transmission channels, like a cable. In yet other examples, the network 930 may comprise any number of computers, configured as centralized or decentralized peer-to-peer networks, ad hoc networks, mesh networks, or any other useful configuration. For instance, the network 930 may comprise two terminals connected to one another by a Universal Serial Bus (USB) cable, each performing server functions for the other computer. Using the network 930, the client terminal 910 may interact with a video playback environment 940.

[0214] FIG. 9B provides an exemplary system diagram illustrating embodiments of client terminals for use with various embodiments of system-level video playback environments. The system 950 comprises a client terminal 960 with various components, including a central processor 970, network devices 972, input devices 974, output devices 976, data stores 978, or any other useful components.

[0215] The client terminal 960 may have a VPE 990 stored as an application on a data store 978. The client-level application may be runnable by the processor 970. Additionally, the client terminal 960 may interface at least through its network device 972 to a network 980. Using the network 980, the client terminal 910 may access information it requires or desires for use with or by the VPE 990. This information may be accessed through (and in some cases stored on) a host system 992. The host system 992 may be one or more of any type of system component capable of providing and/or storing data and/or applications required or desired for use with or by the VPE 990.

[0216] FIG. 10 provides an exemplary flow diagram summarizing methods relating to client terminal interactions with video playback environments in various embodiments of the invention. The method 1000 may begin when a client enters a VPE 1010. The client may

enter the VEE 1010 by executing an application invoking various software and/or hardware commands, accessing a webpage, or in any other useful way.

[0217] Prior to entering the VPE 1010, the method 1000 may require certain set-up steps. For example, the client may access a login environment 1002. In certain embodiments, the client may access a login environment 1002 to provide login information 1004 to the method 1000. In some of these embodiments, providing the login information 1004 assists the method 1000 in determining the level of access of the client.

[0218] For example, the method 1000 may determine based on the login information whether the client has permission 1004 to access all or part of the VPE. If the client does not have permission 1004-1 to access the VPE or desired files, the method 1000 may terminate 1030 (e.g. the login may be denied). If the client does have permission 1004-2 to access the VPE or the desired files, the client 1000 may continue to access the VPE 1010.

[0219] Once the VPE is loaded 1010, the client may use the VPE to view video information 1012 (e.g. in a video frame). The method 1000 may allow the client to view the video data 1012 in any useful way. In some embodiments, the method 1000 may generate a video frame either along with or as part of a VPE GUI. The client may use these video elements (e.g. the video frame and various GUI controls) to view or manipulate the video data.

[0220] As the elements load (or in some embodiments, after the elements have loaded), the VPE may provide interactive capability, and the client may interact with these capabilities. In the illustrated embodiments, the client may activate a "play" control 1020 (e.g. use a mouse to click on a virtual "play" button). If the play button is active 1020-1, the method 1000 may play (or continue to play) the video file 1022, and the client may continue to view the video file 1012.

[0221] If the client is not activating a play control 1020-2, the method 1000 may determine whether the client is activating a cue point control 1024 (e.g. a virtual cue point navigation button). If the cue point button is active 1024-1, the method 1000 may jump to a time position in the video file 1026 associated with the active cue point. After the method 1000 jumps to the time position in the video file 1026, the method may continue to play the video file 1022 from that time position, and the client may continue to view the video file 1012.

[0222] If the client is not activating a play control 1020-2, and the client is not activating a cue point control 1024-2, the method may determine whether the client is activating an exit control 1028. If the exit control is active 1028-1, the method 1000 may terminate 1030.

[0223] If the client is not activating an exit control 1028-2, the method 1000 may determine whether the client is activating another command 1032. If the method 1000 determines that another command is active 1032-1, the method 1000 may respond to the command 1034. If the method 1000 determines that no other command is active 1032-2 (e.g. the client is not interacting with the VPE), the method 1000 may allow the client to continue viewing the video data 1012.

[0224] FIG. 11A provides an exemplary screen shot of an embodiment of a video playback environment as viewed by a client terminal according to the invention. The video playback screen 1100 may comprise various elements which may be useful for viewing, navigating, processing, manipulating, and performing other functions relating to video and associated information. It will be appreciated that many types of video playback screens 1100 are possible within the embodiments of the invention. As such, the video playback screen 1100 illustrated in FIG. 11 is for illustrative purposes only and should not be construed to limit the scope of the invention.

[0225] The video playback screen 1100 comprises a video frame 1102. The video frame 1102 may be configured to display video data and to allow for interactive video manipulation. The video frame 1102 may comprise a video footage area 1104, a comment area 1106, a navigation area 1108, and any other useful areas.

[0226] The comment area 1106 may display text, images, or other information describing or adding to the footage seen in the video footage area 1104. As illustrated, the comment area 1106 may span the full width and some percentage of the height of the video frame 1102. Further, as illustrated, the comment area 1106 may be overlaid on the video footage with a semi-transparent background, so the video footage is not totally obscured by the comment area 1106. Of course, the comment area 1106 may have any size, shape, color, transparency, or other useful characteristic.

[0227] The navigation area 1108 may comprise any number of navigation controls for navigating, processing, manipulating, or otherwise affecting video elements. As illustrated, the navigation area 1108 may comprise virtual buttons, like a "pause" button 1110. Further, the navigation area 1108 may comprise a video progress bar 1112 which may show various

information relating to the progress of the video, e.g. loading or playback. The video progress bar 1112 may comprise other elements relating to video progress, time positions, or other useful information. For example, as illustrated, the video progress bar 1112 may change color to show progress with the video loading. Here, the video progress bar 1112 is half filled in, representing that the video is half-way through with its progressive downloading.

[0228] In some embodiments, video may load in a non-linear fashion. For example, different portions of the video may load from different servers, at different rates, etc. In another example, a client may force a portion of the video to download out of order (e.g. by selecting a cue point location relating to video data which had not yet loaded). In these non-linear download situations, or in any other useful situation, the video progress bar 1112 may be configured to display the non-linear progress. For example, different portions of the video progress bar 1112 may fill in to represent the different portions which have downloaded.

[0229] Further, the video progress bar 1112 may comprise a playback progress indicator 1114, representing the current time position of the video playback. As illustrated, the time position is about nine percent through the video footage (0:34 out of 11:13), so the playback progress indicator 1114 is about nine percent of the distance from the beginning of the video progress bar 1112 to the end. The navigation area 1108 may also comprise informational elements, such as a time indicator 1118. The time indicator 1118 may display the current time position in the video footage, the total time of video footage in the video file, time remaining for playback, or other useful information. In some embodiments, these other elements may be used as interactive controls. For example, it may be possible to drag the playback progress indicator 1114 to change the current time position of video footage being displayed in the video footage area 1104.

[0230] It will be appreciated that many types of areas, controls, and other elements are possible. For example, the navigation area 1108 may also comprise other video controls (e.g. stop, fast forward, rewind, rotate, zoom, etc.), audio controls (e.g. volume, pan, fade, equalizer controls, etc.), etc. Further, it may be possible to add or modify the elemtns of the video frame 1102. For example, it may be possible to drag the comment area 1106 to other locations, change its size, etc.

[0231] The video playback screen 1100 may also comprise a cue point control area 1120. The cue point control area 1120 may list available cue points associated with the video being

played in the video frame 1102. In some embodiments, as video data progressively downloads, so does cue point information. For example, if half the video has loaded, only those cue points associated with time positions in the first half of the video will have loaded.

[0232] In some of these embodiments, the cue point controls 1122 may load, but may become active (e.g. capable of being interacted with) after the corresponding video data loads. For example, as illustrated, the cue point control area 1120 lists eight cue points 1122, three of which are active ("NEIGHBORHOOD," "EXTERIOR," and "FOYER"). In this example, a client would be able to click on any of the three active cue point controls (1122-1, 1122-2, and 1122-3) to navigate to those corresponding locations in the video. However, a client would not be able to click on the other five cue point controls (1122-4 through 1122-8), as the corresponding video has not yet loaded.

[0233] In an alternate embodiment, the cue point controls 1122 may become active before the corresponding video data loads. Here, all eight cue points 1122 in the cue point control area 1120 would be active, even though only a portion of the video data has loaded. If a client, for example, clicked on the fifth cue point 1122-5, the corresponding video would begin to load and playback would continue from that associated time position.

[0234] In the illustrative case, a client is viewing a video file containing footage of a house for sale. The client may desire to navigate through the video information using the cue point controls 1122. Currently, the client is watching the portion of the video data in the video footage area 1104 corresponding with the "EXTERIOR" cue point 1122-2. Further, the client may view additional information associated with the cue point (i.e. the exterior of the house, in this case) by reading the informational text displayed in the comment area 1106.

[0235] FIG. 11B provides an exemplary screen shot of another embodiment of a video playback environment as viewed by a client terminal according to the invention. The video playback screen 1150 comprises substantially the same elements as those in the video playback screen 1100 of FIG. 11A. However, in the cue point control area 1170, the cue point controls 1170 may be displayed as image, rather than text, identifiers. It will be appreciated that these images may be acquired and/or associated with the cue points in various ways. For example, the images may be selected by a client within a cue point editor, or the images may be automatically generated from the video data (e.g. by generating a still image from the frame of video data being played at the time position associated with the cue point). Here, in the illustrated embodiment, the cue point control area 1170 lists five cue

points 1172, three of which are active (1172-1, 1172-2, and 1172-3) and two of which are inactive (1172-4 and 1172-5).

[0236] FIG. 11C provides an exemplary screen shot of yet another embodiment of a video playback environment as viewed by a client terminal according to the invention. The video playback screen 1180 may comprise various elements which may be useful for viewing, navigating, processing, manipulating, and performing other functions relating to video and associated information. As illustrated, the video playback screen 1180 comprises a video frame 1182. The video frame 1182 may be configured to display video data and to allow for interactive video manipulation. The video frame 1182 may comprise a video footage area 1184, a comment area 1186, a navigation area 1188, and any other useful areas.

[0237] The comment area 1186 may display text, images, video, or other information describing or adding to the footage seen in the video footage area 1184. Further, the comment area 1186 may have any useful aesthetic or functional characteristics, including any size, shape, color, transparency, or other useful characteristic. As illustrated, the comment area 1186 may be a "pop-up" field which appears in any part of the video playback screen 1180 for any desirable reason. In some embodiments, the comment area 1186 may appear when a client interacts with a cue point location identifier 1192. For example, the client may cause the comment area 1186 to appear by mousing over (e.g. placing the mouse pointer over), right-clicking, selecting, or otherwise interacting with a cue point location identifier 1192. In other embodiments, the comment area 1186 may appear whenever a cue point location is reached. For example, when the video playback reaches the time position associated with a given cue point, the comment area 1186 may appear, showing comment information relating to the associated cue point. The comment area 1186 may continue to display on the video playback screen 1180 for any desirable duration, including until the client closes the comment area 1186 (e.g. by clicking a "close" GUI control or by moving the mouse pointer off the cue point location identifier 1192), for some predetermined duration (e.g. until the end of the cue point or for twenty seconds), or for some other useful duration.

[0238] Even further, the client may be able to interact with the comment area 1186 in any useful or desirable way. In some embodiments, the comment area 1186 may comprise GUI controls, hyperlinks, or other modes of interactivity, allowing a client to comment on the comment. For example, a client may be able to use the comment area 1186 to view and/or add a stream of comments about a given cue point location. The client's comments may

relate to the video, the cue point, another user's comments, or any other useful information. Further, the client's comment may comprise textual, audio, video, or any other information. For example, the client may add a video comment recorded by his cell phone video camera. In another example, the client may add an audio comment with appended text information and a link to a related file. In some of these embodiments, the ability to comment may be determined by the client's level of authority. Further, in some of these embodiments, the VPE may be configured to allow a client to add cue points from the VPE by commenting on the video. This may be accomplished in any useful way, including, but not limited to the ways illustrated with respect to embodiments of the VEE.

[0239] The navigation area 1188 may comprise any number of navigation controls for navigating, processing, manipulating, or otherwise affecting video elements. The navigation area 1188 may comprise a set of cue point location identifiers 1192. These cue point location identifiers 1192 graphically indicate the time positions associated with each cue point. Different identifiers may be used to indicate different types of cue points. For example, as illustrated, cue point location identifiers 1192-1 through 1192-4 represent time positions of cue points added through a VEE by a client editor, while cue point location identifier 1192-5 represents a cue point added from within a VPE (e.g. a comment) by the same or another client.

[0240] The navigation area 1188 may also comprise a video download progress bar 1196 which may show how much and what parts of the video data have been downloaded. As illustrated, the video download progress bar 1196 may be split where portions of the video are loading in a non-linear fashion. For example, here, roughly the first half of the video has downloaded, as well as some of the video data starting from the fourth cue point location indicator 1192-4 (as indicated by the two shaded areas of the video download progress bar 1196).

[0241] Further, the navigation area 1188 may comprise a playback progress indicator 1194, representing the current time position of the video playback. In some embodiments, any of the elements of the navigation area 1188 may be used as interactive controls. For example, it may be possible to drag the playback progress indicator 1194 to change the current time position of video footage being displayed in the video footage area 1184, or to drag a cue point location identifier 1192.

[0242] The video playback screen 1180 may also comprise a cue point control area 1190. The cue point control area 1190 may list available cue points associated with the video being played in the video frame 1182. As illustrated, four cue point controls are available in the cue point control area 1190. These controls correspond to four time positions within the video file, represented by four cue point location indicators (1192-1 through 1192-4).

[0243] It will be appreciated that there are many types of environments in which the client may access these and other embodiments of the VPE. FIG. 12 provides an exemplary screen shot of a web-based environment in which an embodiment of a video playback environment is embedded according to the invention. The webpage 1200 may comprise an embedded VPE 1210. The VPE 1210 may be embedded in any useful way, including as a separate frame within the webpage 1200, as a separate window overlaid on the webpage 1200, or as embedded elements within the webpage 1200.

[0244] Further, the webpage 1200 may comprise any other elements which may be useful for viewing, navigating, and performing other functions separate from or relating to the VPE. It will be appreciated that many types of webpages 1200 are possible with almost any type of webpage elements, all capable of actively or passively interacting with embodiments of the invention. As such, the webpage 1200 illustrated in FIG. 12 is for illustrative purposes only and should not be construed to limit the scope of the invention.

[0245] The illustrated embodiment of the webpage 1200 comprises various areas which may or may not be related to the embedded VPE 1210. The webpage 1200 comprises a master frame area 1220. The master frame area 1220 in this embodiment comprises various elements relating to the website owner. The master frame area 1220 comprises an informative field (here, the logo for "Property Listings, Inc."); a "Home" button for allowing a client to navigate to the Property Listings, Inc. homepage; a "MLS" button for allowing a client to navigate to a Multiple Listing Service (MLS) search page; a "Map" button for allowing a client to navigate to a map of the location of the currently displayed property listing; and a "Contact" button for allowing a client to navigate to a page with contact information for both Property Listings, Inc. and the currently displayed property listing.

[0246] The webpage 1200 also comprises a title area 1230. The title area 1230 in this embodiment comprises various elements intended to set the context of the currently displayed property listing. Here, the title area 1230 displays the address and list price of the listed property. Additionally, the webpage 1200 comprises other types of information relating to

the listed property, including various images of the property 1240 and one or more property information fields 1250. The property information field 1250 may give the client more information about the listed property, such as information found in the property's MLS listing.

[0247] In some embodiments, any or all of these fields and controls may be informational or interactive for various purposes and to various types of clients. Further, in certain embodiments, the webpage 1200 may adapt to various types of information, types of clients, etc. For example, various elements on the webpage 1200 may be associated with other information from other sources (e.g. with the client's login information or preferences, a property's listing agency, etc.), or may be inferred from other sources (e.g. from a client's search history, from the time of day, from the geographic origin of the client's request, etc.).

[0248] It will be appreciated that, while the illustrative embodiments have been shown in the context of homes for sale, many other types of property commerce are possible within the various embodiments of the invention. One category of property commerce may include other types of real estate. This category may include, for example, any type of residential or commercial real estate; and level of development (e.g. unimproved, zoned, farmland, improved, etc.); real estate being offered for purchase, rental, timeshare, swap, or any other type of commerce; or even temporary accommodations, such as hotel rooms and amenities (e.g. guest rooms, suites, pools, gyms, etc.), and business or event accommodations (e.g. conference rooms, receptions halls, amphitheaters, etc). Another category of property may include any types of products in commerce. These products may include, for example, any types of goods or services (e.g. clothing, automobiles, cleaning services, massage, etc.); any product listing types (e.g. classifieds, want ads, etc.); any types of product commerce (e.g. barter, rent, purchase, borrow, lend, auction, etc.); and any type of product commerce-related information (e.g. showroom, three-dimensional imaging, exploded views, etc.). A third category of property may include any type of informational property. This informational property may include, for example, news footage (e.g. world news, sports highlights, etc.); business or service information (e.g. restaurant listings, company profiles, stockholder information, service options); product information (e.g. product manuals); or reference information (e.g. encyclopedic information, educational video, etc.).

[0249] It will be further appreciated that many types video playback environments are possible for handling the many types of video information and many types of cue point

information, all within the scope of the invention. Even further, video playback environments may be configured to perform any or all the functionality of a video editing environment. As such, the above descriptions of embodiments relating to video playback environments in FIGS. 8 – 12 should not be construed as limiting the scope of the invention.

Montage Video Generation

[0250] Embodiments of the invention provide systems and methods for montage video generation and handling using cue point information. FIGS. 13A – C provide exemplary system diagrams for generating and handling montage video information for use with various embodiments of the invention. The components and system arrangements are shown for illustrative purposes only and should not be construed as limiting the invention.

[0251] FIG. 13A provides an exemplary system diagram for server-level generation and handling of montage video information for use with various embodiments of the invention. The system 1300 comprises a video generator 1312, configured to generate montage video data. The video generator 1312 may comprise one or more computer systems, applications, processes, or any other useful component for generating montage video information.

[0252] The video generator 1312 may also be in operative communication with a cue point handler 1314, configured to handle cue point information relating to, among other things, the generation and handling of montage video information. The video generator 1312 and cue point handler 1314 may be part of a subsystem 1310. The subsystem 1310 may be owned, operated, controlled, or otherwise associated with a host party.

[0253] The subsystem 1310 or the video generator 1312 may be in operative communication with a network 1320. The network 1320 may be any public or private, secure or insecure, wired or wireless network (e.g. the Internet). In some embodiments, the network 1320 may comprise any number of computers, configured as centralized or decentralized peer-to-peer networks, ad hoc networks, mesh networks, or any other useful configuration. For example, the network 1320 may comprise two terminals connected to one another by a Universal Serial Bus (USB) cable, each performing server functions for the other computer.

[0254] Through the network 1320, the video generator 1312 or subsystem 1310 may be able to access required or desired information from various locations. For example, video information may be accessed over the network 1320 from one or more video servers 1330, and cue point information may be accessed over the network 1320 from one or more cue

point servers 1340. Further, clients my access the video generator 1312 or subsystem 1310 vie the network 1320 by using one or more client terminals 1350.

[0255] FIG. 13B provides an exemplary system diagram for integrated, server-level generation and handling of montage video information for use with various embodiments of the invention. The system 1360 comprises components which are substantially similar to those in the system 1300 of Fig. 13A. However, the subsystem 1370 integrates some or all of the servers (e.g. the video servers 1330and cue point servers 1340) which provide information to the video generator 1312 or cue point handler 1314.

[0256] FIG. 13C provides an exemplary system diagram for client-level generation and handling of montage video information for use with various embodiments of the invention. The system 1380 comprises components which are substantially similar to those in the systems 1300 and 1360 of Figs. 13A and 13B, respectively. However, the system 1380 is arranged so that the subsystem 1390 (possibly the video generator 1312 and/or cue point handler 1314) comprises client-level applications (e.g. resident applications on a client terminal).

[0257] The client terminals 1390 may then be in operative communication with the network 1320. Through the client terminal 1390 and the network 1320, the video generator 1312 or subsystem 1390 may be able to access required or desired information from various locations (e.g. video information from one or more video servers 1330 and cue point information from one or more cue point servers 1340).

[0258] FIG. 14 provides an exemplary flow diagram summarizing host-oriented methods for generating and handling montage video information in various embodiments of the invention. The method 1400 begins by receiving a montage request 1402. The montage request may comprise any information useful for generating a montage video file. In some embodiments, the montage request may comprise query terms representing the type of information a client wishes to view in a montage file. Further, in certain of these embodiments, the query terms may be similar or identical to cue point names, such that portions of video files associated with cue points matching those names may be selected as part of a montage video file.

[0259] Further, the montage request may be received 1402 in any useful way. In some embodiments, the montage request may be received 1402 over the internet as a transmission of montage request data. For example, the montage request may be received 1402 as part of

a file which is interpreted by one or more scripts, processes, or algorithms. In another example, the montage request may be received 1402 as a function call from another system or application.

[0260] In many cases, the montage request will be received 1402 in a form which requires further processing. The method 1400 may analyze the montage request 1404 for this or other reasons. In some examples, analyzing the montage request 1404 may comprise converting the montage request to a useful format; adding, removing, or modifying data in the montage request; or inferring information from the data provided. In other examples, the data in the montage request may be analyzed 1404 against extrinsic information for other useful results. For instance, a query term may be compared to a thesaurus to generate a list of substantially similar query terms for improved query results. It will be appreciated that many different types of analysis may be possible or desired for various reasons.

[0261] Using information from the montage request, the method 1400 may generate a relational dataset 1406. The relational dataset 1406 may comprise any type of data structure useful for storing data elements in relation to one another, like a relational, multi-dimensional database. Further, the relational dataset may be generated from any useful data sources, including one or more other relational datasets.

[0262] For example, there may exist a video server, which stores and indexes video files by unique video identifiers, using a flat (or sequential) data structure; and a cue point server, which stores a network of cue point attributes in relation to a set of cue point identifiers, using a multi-dimensional relational data structure. Say a montage request represents a query for all video files associated with a query term. The method 1400 may search through the cue point server to find all cue points with names which match the query term. Using the relational data structure, the method 1400 may then be able to generate a dataset listing all those cue points in relation to useful information, like pointers to their associated video files and specific time positions within those video files where information relating to the cue point is located.

[0263] After generating the dataset 1406, the method 1400 may use the relational dataset to build a montage video file 1408. The montage video file may be generated 1408 in any useful form. In some embodiments, the montage video file may be generated 1408 as a list of pointers or other information which may be interpretable by a video playback application or system. In other embodiments, the montage video file may be generated 1408 as a video file

in a playable format. For example, the generated montage video file may comprise a concatenation of video data from other video files. After (or while) the montage video file is generated 1408, the method 1400 may transmit the montage video file and any associated cue point information to a video playback application or system 1410.

[0264] FIG. 15 provides an exemplary flow diagram summarizing client-oriented methods for generating and handling montage video information in various embodiments of the invention. The method 1500 begins when the client generates a montage request 1502. The client may generate a montage request 1502 in any useful way. In one embodiment, the client may enter query terms into a field on a client terminal using some input device. In another embodiment, an automated client (e.g. an application or computer system) may automatically generate a montage request 1502. For example, an application may generate a montage request 1502 by inferring query terms which may be desirable to an end user from a previous pattern of search conduct.

[0265] The client may then transmit the montage request 1504 in any useful way. In some embodiments, the montage request may be transmitted 1504 over the internet as part of a file which is interpreted by one or more scripts, processes, or algorithms. In other embodiments, the montage request may be transmitted 1504 as one or more function calls from other systems or applications.

[0266] Sometime after transmitting the montage request 1504, the client may receive a montage video file and associated cue point information 1506. The montage video file and cue point information may be received 1506 in any useful form. For example, the montage video file may be received 1506 as a video file in a playable format, and the cue point information my be received 1506 as functions which generate cue point GUI controls. In some embodiments, after (or while) the montage video file and cue point information is being received 1506, the client may play the montage video file 1508 on a video playback application or system. Additionally, in some embodiments, the client may navigate playback of the montage video file using the cue point information 1510 (e.g. by interacting with a cue point GUI control).

[0267] FIG. 16 provides an exemplary set of data structures for use with generating embodiments of montage video data according to the invention. It will be appreciated that many data structures are possible for storing and handling information relating to raw video,

montage video, and cue points. As such, the illustrated data structures are purely exemplary and should not be construed as limiting the invention.

[0268] Say a cue point dataset 1600 is provided, which is substantially the same as the dataset illustrated in and described in reference to Fig. 7. As illustrated, the cue point dataset 1600 stores cue point names in relation to associated video identifiers. Though not shown, the cue point dataset 1600 also stores various types of cue point information in relation to each cue point entry. For example, each cue point entry may be stored in relation to a specific time position within a video file.

[0269] Further, say a client wishes to generate a montage video file of all home exteriors. In the illustrated embodiment, each video file with video data related to home exteriors is related to a cue point with the name "Exterior". This cue point was associated with the video information at some point, for example, by some client using a video editing environment with a cue point handler and a cue point editing mode. The cue point "Exterior" in each video file represents the time position identified as where the footage begins to refer to the home's exterior.

[0270] A command 1640 may be generated (e.g. transmitted by a client, received by a host or application, etc.), requesting that a dataset is built for all "Exterior" cue points. The result of this build command 1640 is a generated dataset 1650. The generated dataset 1650 may comprise any useful attributes for generating a montage video file of all footage relating to home exteriors. In some embodiments, the generated montage video file will be displayed along with a generated set of cue points representing the source of that section of montage video data. Therefore, it may be necessary to generate information as part of the generated dataset 1650 to facilitate the generation of the new cue point set.

[0271] In the illustrated embodiment, the generated dataset 1650 comprises a list of video identifiers 1652 which matched the build command 1640 (e.g. which comprise home exterior footage). The generated dataset 1650 further comprises a set of related attributes to facilitate the generation of the new set of cue points for the video montage file. These attributes include "CUE_LOCATION" 1654, an ordinal identifier representing which of the cue points associated with the video file is the "Exterior" cue point; "CUE_TITLE" 1656, a text field representing the text which will be displayed within a GUI control representing each new cue point; and "TIME_POSITION" 1658, a field representing the time position within the video file where the footage associated with the cue point begins.

[0272] The listed video files 1652 each relate to a cue point with a name which exactly matches the criteria passed with the build command 1640 (i.e. "Exterior"). It may be desirable in some cases, however, to include video files in the results list when an associated cue point name is similar (or meets some sort of algorithmic result). For example, the first cue point in the video file associated with identifier "VID_0004" 1660 is named "Outside". Based on some algorithm (e.g. a comparison to a thesaurus entry), it may be determined that "Outside" is similar enough to "Exterior" to include "VID_0004" in the generated list of results 1652. It will be appreciated that many different types of algorithms may be used for different purposes. For one example, the algorithm may check for cue points with similar spelling or phonetics. For another example, the algorithm may keep track of statistics (or databases) allowing it to infer (or look up) that when clients search for X, they tend to also want to find Y. For instance, the algorithm may determine that clients searching for homes for sale and looking at "Master Bedroom" cue points would typically be interested in "Master Suite" cue points, as well.

[0273] It will be appreciated that other algorithms, functions, processes, etc. may be used to affect the generated montage video file. In some embodiments, the order of the video footage used to generate the montage video file may be determined in some desirable way. For example, the order of footage may be determined by the order in which the footage is located by a video generator, by how closely the video footage matches the montage request, by a ranking of the video files (e.g. by associating client rankings with the video files, by allowing parties to pay for higher rankings, etc.), by geographic distance from the client, or by any other algorithm or process.

[0274] FIGS. 17A and 17B provide exemplary screen shots of embodiments of montage video data being displayed in the context of video playback environments as viewed by client terminals according to the invention. Fig. 17A provides a video playback environment 1700 which is substantially identical in form and function to the webpage 1200 of Fig. 12, except for the cue point control area 1710.

[0275] The cue point control area 1710 comprises a set of cue point GUI controls 1712. Each GUI control 1712 is configured to allow the client to navigate to the portion of the video footage corresponding to the property listing matching the cue point name. As illustrated, the video file being played is a montage video file generated from the set of video files containing an "Exterior" cue point. Therefore, if the client views the video file in its

entirety, she will see all video footage relating to home exteriors. By interacting with the GUI controls 1712, she may jump to exterior footage relating to a specific property listing.

[0276] The exemplary video playback environment 1750 of Fig. 17B is substantially identical to the video playback environment 1700 of Fig. 17A, except that the cue point GUI controls 1760 comprise image identifiers 1762, rather than text identifiers. It will be appreciated that these image identifiers 1762 may be generated and displayed in any useful way. For example, the images may be selected and uploaded by a client in a video editing environment, stored in relation to the cue point in a cue point server, and retrieved for display from the cue point server by the video playback environment 1750.

[0277] FIG. 18 provides an exemplary set of data structures for use with generating embodiments of montage video data from hierarchical montage requests according to the invention. In the illustrated embodiment, a cue point dataset 1800 is provided, comprising a list of video identifiers 1802, and a set of associated cue points 1804 for each video identifier 1802.

[0278] The set of cue points 1804 represent hierarchical cue points, such that cue points in the CP1 column 1804-1 represent a metatag describing the major category into which the video represented by the video identifier 1802 falls. Cue points in the CP2 column 1804-2, then, represent a metatag describing the sub-category into which the video represented by the video identifier 1802 falls. For example, looking at the video identified by the first video identifier 1810-1, the CP1 cue point 1804-1 is named "Hotel", and the CP2 cue point 1804-2 is named "Downtown". Therefore, the video represented by "VID_0001" 1810-1 is presumably a video about a downtown hotel.

[0279] The remaining cue points (e.g. 1804-3 and 1804-4) relating to each video identifier 1802 may represent either time positions or meta-tags of further subordinate categories. For example, looking again at the video identified by "VID_0001" 1810-1, the CP3 cue point 1804-3 is named "Swimming Pool", and the CP4 cue point 1804-4 is named "Roof Top". In this example, the CP3 cue point 1804-3 ("Swimming Pool") represents a time position within the video file "VID_0001" where the footage begins to relate to the hotel's swimming pool. The CP4 cue point 1804-4 ("Roof Top") may either represent a metatag further describing the subcategory of swimming pools (e.g. for narrowing search queries), or the CP4 cue point 1804-4 may represent the time position of video footage relating to the hotel's roof top pool,

as opposed to the footage beginning at the CP3 cue point 1804-3 which may relate to the hotel's other pool.

[0280] In a second example, looking at the video identified by "VID_0002" 1810-2, the CP1 cue point 1804-1 is named "Sports", and the CP2 cue point 1804-2 is named "Basketball". In this example, both cue points (CP1 1804-1 and CP2 1804-2) represent meta-tags describing the category and sub-category into which the video file "VID_0002" falls. In this example, the video file "VID_0002" may be a basketball highlight reel pulled from or uploaded by a sports network, with no additional cue points added.

[0281] In a third example, looking at the video identified by "VID_0005" 1810-5, the CP1 cue point 1804-1 is named "News", the CP2 cue point 1804-2 is named "World", the CP3 cue point 1804-3 is named "Asia", the CP4 cue point 1804-4 is named "China", and the CP5 cue point 1804-5 is named "04/02/2006". In this example, all five cue points (CP1 1804-1, CP2 1804-2, CP3 1804-3, CP4 1804-4, and CP5 1804-5) represent meta-tags describing progressively subordinate categories into which the video file "VID_0005" falls. In this example, the video file "VID_0005" may be a news reel stored on a video server owned and operated by a news website. The video file "VID_0005" may comprise footage relating to headline news in China on April 2, 2006.

[0282] As part of a query, a query command 1840 may be executed. This query may be the result of any effective type of query from any source. For example, a client may type a set of search terms into a text field on a website. The website may then execute a script which uses text processing algorithms, like Boolean logic, to analyze the query request and generate a query command 1840. In another example, a computer system may be configured to periodically scan the Internet for video footage relating to a specific subject and store the results. The computer system may generate a query command 1840 to effectuate its Internet search.

[0283] In the illustrated embodiment, the query command 1840 represents a query to generate a montage video file of all video footage relating to all downtown hotels. One step in the query command 1840 may be a pivot command 1842, which effectively re-sorts the cue point dataset 1800, first by CP1 1804-1 and then by CP2 1804-2. The generated dataset 1850 is the result of that pivot command 1842. Using the generated dataset 1850, the query command 1840 may return the subset of video identifiers 1852 for which CP1 1854-1 is named "Hotel" and CP2 1854-2 is named "Downtown". As illustrated, this results subset

1860 would comprise "VID_0001" and VID_0004". Of course, additional logic and/or data processing may reveal that, in this context, "Airport" is substantially similar to "Downtown" (e.g. the airport is in the downtown area). In that case, the query may be configured to also return "VID_0003" as part of the results subset 1860.

[0284] FIGS. 19A – 19C provide exemplary screen shots of embodiments of montage video data resulting from hierarchical montage requests being displayed in the context of video playback environments according to embodiments of the invention. Each of Figs. 19A – 19C are intended for illustrative purposes only, and should not be construed to limit the invention.

[0285] Fig. 19A provides a screenshot 1900 of a search result being displayed by a video playback environment on a client terminal. The client in this exemplary case submitted a query for video footage relating to roof-top swimming pools in downtown hotels. The client's search returned a montage video file comprising video relating to four results, represented by the four result cue point controls 1920-1, 1920-2, 1920-3, and 1920-4. As illustrated, each result cue point control 1920 represents a time position in the video montage file relating to footage of a particular hotel's roof-top swimming pool.

[0286] The screenshot 1900 comprises several GUI elements, including a video frame 1902, a search results area 1904, and a control panel area 1906. The video frame 1902 is configured to play the montage video file, related information (e.g. comment information, elapsed time, etc.) and to allow for client interactivity with the video data (e.g. by providing navigational GUI controls, like a "pause" button and a playback position slider). Further, the video frame 1902 is configured to progressively download the video data, so that the client may play video data as it loads. In this case, a download progress indicator 1908 indicates that the video file is less than half way through downloading (the shaded area takes up less than half the total area allotted for the download progress indicator 1908); and a playback progress indicator 1910 indicates that playback is around nine percent of the way through the total video data.

[0287] In some embodiments, video may load or be played back in a non-linear fashions. For example, different portions of the video may load from different servers, at different rates, etc. In another example, a client may force a portion of the video to download out of order (e.g. by selecting a cue point location relating to video data which had not yet loaded). In these non-linear download situations, or in any other useful situation, the download

progress indicator 1908 may be configured to display the non-linear progress. For example, different portions of the download progress indicator 1908 may fill in to represent the different portions which have downloaded.

[0288] The search results area 1904 is configured to display search results in a useful way. As illustrated, the search results area 1904 may display both the result cue point controls 1920 and other hierarchical data relating to the search results. For example, here, the client searched on a website devoted to hotels, so the broadest category of the client's query is implicitly video footage about hotels (or alternately, the query may search video footage on a video server devoted exclusively to hotel footage). The sub-categories or the query are downtown, then swimming pools, then roof-top, yielding roof-top swimming pools in downtown hotels.

[0289] Each criterion may be represented by a criterion control 1922. Further, those criterion controls 1922 may allow for certain types of interactivity. In some embodiments, a client may be able to click and/or drag the criterion controls to potentially adjust the query results by reordering query criteria. Additionally, the criterion controls 1922 may comprise or be associated with other controls, like delete controls 1924. A delete control 1924 may be configured to remove a query criterion and re-run the query. Say, for example, the client clicks the second-level delete control 1924-2, effectively removing the "Swimming Pools" criterion from the query. The GUI may remove the "Swimming Pools" criterion control 1922-2, and the query may re-run with the remaining criteria, "Hotels," "Downtown," and "Roof-Top." The query may then return footage of all roof-tops of downtown hotels, regardless of whether the roof-top has a swimming pool.

[0290] The search results area 1904 may also comprise various result cue point controls 1920, each representing a time position in the video montage file. By interacting with a cue point control 1920, a client may jump to the associated location within the montage video file. For example, as illustrated, the client has selected the "Hotel Opulence" cue point control 1920-2 (represented by the inverted coloration), representing footage of the roof-top swimming pool at the Hotel Opulence. The footage begins 34 seconds into the montage video file. Therefore, the montage video file is playing in the video frame 1902 from the time position of 34 seconds.

[0291] In some embodiments, the cue points may load progressively along with the montage video data. In some cases, cue points may become active (e.g. available for

interaction) only after their respective video data loads. For example, in the illustrated embodiment, the third and fourth cue points ("L'Magnifique" and Conference Center", respectively) represent time positions at 3:30 and 5:00 in the montage video file, but only the first three minutes of video data have loaded. Therefore, the third and fourth cue points may remain active until more video data loads. This inactive status may be represented in some useful way by the GUI, for example by changing the weight of the lines and text associated with the third and fourth cue point controls (1920-3 and 1920-4, respectively).

[0292] Alternatively, cue points may be activated before their respective video data loads. For example, cue points may load when the video data begins to download. When a client selects a cue point before its respective video data has loaded, the video data may begin to progressively download from that cue point time position. When the video data for that cue point has finished loading, other video data may continue to load in any desirable order.

[0293] The control panel area 1906 may comprise any number of useful controls. In the illustrated embodiment, the control panel area 1906 comprises eight GUI controls. The first four relate to the current listing (e.g. the hotel currently being displayed in the video frame 1902, the Hotel Opulence, in the illustrative case). These first four controls include a "Go To Hotel Listing" button for allowing a client to load the full listing of (and possibly the full video footage relating to) the current hotel listing; a "Show Ratings" button for allowing a client to view ratings associated with the current hotel listing; a "Map Hotel Listing" button for allowing a client to view a map of the geographic location of the current hotel listing; and a "Contact Property" button for allowing a client to view contact information or to contact (e.g. provide the client with an email form, place a voice-over-internet-protocol (VoIP) phone call, etc.) the current hotel listing. The remaining four controls in the control panel area 1906 relate to the search results. These four controls include a "Resort Results" button for allowing a client to change the sorting criteria (e.g. distance from a geographic location, alphabetical, average room price, closest match to query criteria, etc.) and reorder the search results accordingly; a "Show Results Details" button for allowing a client to view detailed information relating to the search results (e.g. a side-by-side comparison of the results, a new frame with important additional information on each listing, etc.); a "Map Search Results" button for allowing a client to view a map of the geographic locations of all the hotels in the results list; and a "Modify Search Criteria" button for allowing a client to adjust the query criteria in any useful way.

[0294] Fig. 19B provides a screenshot 1930 of another illustrative embodiment of the invention. The screenshot 1930 comprises several GUI elements, including a video frame 1932, a search results area 1934, a control panel area 1936, a global navigation area 1938, a title area 1944, and various informational areas 1940. The video frame 1932 is configured to play the montage video file and related information, and to allow for client interactivity with the video data.

[0295] The search results area 1934 is configured to display result cue point controls 1950. For example, here, the screenshot 1930 represents a scenario in which a client is searching for news feeds on a fictional website which provides access to news feeds relating to many diverse subjects from sources all over the Internet, called "NewsFeed". Specifically, the client has searched for footage relating to the National Collegiate Athletic Association's (NCAA) Final Four competition, by providing the Boolean search criteria, "NCAA + 'Final Four'" (i.e. video footage relating to cue points with both names). The query resulted in three results, represented in the search results area 1934 as three result cue point controls 1950. In some embodiments, as in this illustrative case, the context from which the query was run may provide additional query terms. For example, the client in this case is on a news feeds site, on a section of the site devoted to sports (see the active global navigation control "Sports" 1942), and in a section of the sports site devoted to "Today's Sports Highlights" (see the title area 1944). As such, the query may actually comprise a Boolean search for "'News Feed' + Sports + Highlights + [Today's Date] + NCAA + 'Final Four'" (where [Today's Date] represents the date of the search). By interacting with the result cue point controls 1950, a client may jump to the associated location within the montage video file. For example, as illustrated, the client has selected the "SportsNews.com" cue point control 1950-2 (represented by the inverted coloration), representing news feed footage relating to the Final Four from the fictional website, SportsNews.com. The footage begins 3:16 into the montage video file. Therefore, the montage video file is playing in the video frame 1932 from the time position of 3:16.

[0296] The control panel area 1936 may comprise any number of useful controls. In the illustrated embodiment, the control panel area 1936 comprises four GUI controls, including a "Follow the Feeder" button for allowing a client to load the full video footage relating to the Final Four from the currently playing news feed source (e.g. clicking the button may take the client to SportsNews.com, and/or show the client the full NCAA footage from that site); a "Modify Search Criteria" button for allowing a client to adjust the query criteria in any useful

way; a "Save Search Criteria" button for allowing a client to save the current search criteria (e.g. to further allow the client to perform the same search again at another time); and a "Download Feed" button for allowing a client to download and/or save the current montage video file to the client's terminal.

[0297] The global navigation area 1938 may comprise any number of useful controls for navigation around the host site. In the illustrated embodiment, the host site provides navigational controls to categories of information, including "World," "Local," "Financial," "Sports," "Gossip," "Leisure," and "Tech," news. Additionally, the host site provides navigational controls for access to the host's home page and various archives.

[0298] The informational areas 1940 may comprise any number of informational fields, which may or may not be interactive. In the illustrated embodiment, the informational areas 1940 comprise three informational fields, including a "Currently Watching" field 1940-1 configured to display the current query criteria and results which generated the currently displayed montage video file and cue points; a "Today's Most Popular Feeds" field 1940-2 configured to display the most watched (or possibly the highest rated) news feeds from across the host site (or possibly from other areas, like from across a section of the site or from the entire Internet); and a "Related Headlines" field 1940-3 configured to display headlines from various sources which are related to the results of the query (e.g. by some algorithm, like a key word search). It will be appreciated that many types of informational fields are possible for various purposes.

[0299] Fig. 19C provides a screenshot 1960 of yet another illustrative embodiment of the invention. The screenshot 1960 comprises several GUI elements, including a video frame 1962, a search results area 1964, a control panel area 1966, a global navigation area 1968, a title area 1974, and various informational areas 1970.

[0300] The search results area 1964 is configured to display result cue point controls (e.g. 1980). For example, here, the screenshot 1960 represents a scenario in which a client is searching for consumer products on a fictional website which consolidates information from various shopping and auction sites across the Internet, called "OwnIt.net". Specifically, the client has searched for auctions relating to jewelry boxes on all auction networks supported by the host site, by providing the Boolean search criteria, "'Jewelry Boxes' + 'All Networks'" (and possibly implied cue point criteria, like "Auction"). The query resulted in six results, represented in the search results area 1964 as six result cue point controls (e.g.

1980). By interacting with the result cue point controls (e.g. 1980), a client may jump to the associated location within the montage video file. For example, as illustrated, the client has selected the triangle cue point control 1980 (represented by the heavier line weight), representing footage of a jewelry box auction from the fictional website, Shop4Stuff.net. Here, each cue point control (e.g. 1980) is identified by an illustration of the auctioned product, rather than a textual identifier. The footage begins 3:16 into the montage video file. Therefore, the montage video file is playing in the video frame 1932 from the time position of 3:16.

[0301] The video frame 1962 is configured to play the montage video file and related information, and to allow for client interactivity with the video data. It will be appreciated that in some cases, it is desirable for a client to receive substantially real-time footage. For example, in this embodiment, auction footage may be more useful when it is as current as possible. Therefore, the environment may be configured to continually reload all or part of the montage video file to remain substantially current. Additionally, the video frame 1962 may be configured to display other video elements to augment the video data. For example, here, the video frame 1962 is configured to display a star 1972 which warns the client of the remaining time in the auction represented by the auction footage in the corresponding portion of the montage video.

[0302] The control panel area 1966 may comprise any number of useful controls. In the illustrated embodiment, the control panel area 1966 comprises four GUI controls, including a "Go To Product Listing" button for allowing a client to navigate to the auction listing currently being displayed in the video frame 1962; a "More From Vendor" button for allowing a client to view more product listings being offered by the same vendor as the auction listing currently being displayed in the video frame 1962; a "Modify Search Criteria" button for allowing a client to adjust the query criteria in any useful way; and a "Set Auction Alerts" button for allowing a client to set various useful alerts relating to this or other auctions (e.g. having an application send a text message to the client's phone or an email to the client's email address whenever certain auction conditions occur).

[0303] The global navigation area 1968 may comprise any number of useful controls for navigation around the host site. In the illustrated embodiment, the host site provides navigational controls to categories of information, including "Auction," and "Buy Now."

Additionally, the host site provides navigational controls for access to the host's home page, partners of the host site, contact information, and information on joining the OwnIt.net team.

[0304] The informational areas 1970 may comprise any number of informational fields, which may or may not be interactive. In the illustrated embodiment, the informational areas 1970 comprise three informational fields, including a "Currently Watching" field 1970-1 configured to display the current query criteria and results which generated the currently displayed montage video file and cue points; a "Lowest Prices" field 1970-2 configured to display the lowest prices found on various Internet stores for the product currently being displayed in the video frame 1962; and a "Related Product Searches" field 1970-3 configured to display common related queries. It will be appreciated that many types of informational fields are possible for various purposes.

[0305] It will be appreciated that many controls, fields, and other elements are possible for various purposes. Further, it will be appreciated that the environment, and its areas and elements, may change in many different ways, depending on the type of property listings, the needs or desires of the host or client, technological capabilities or constraints, or for any other reasons. As such, the embodiments of Figs. 19A – 19C and their related descriptions are intended for illustrative purposes only and should not be construed to limit the invention.

[0306] Even further, it will be appreciated that many types of montage requests are possible relating to the many types of video information and cue point information according to embodiments of the invention. Additionally, it will be appreciated that many types of video montage datasets and files may result from the many types of montage requests possible within the scope of the invention. As such, the embodiments described herein in reference to Figs. 13 – 19 should not be construed as limiting the scope of the invention.

Group Search Environments

[0307] In some embodiments of the invention, multiple clients may be jointly searching for information from different terminals. For example, a husband and wife may jointly search for a new house at different times and on different computers. The two searchers may be looking for identical, similar, or divergent characteristics. It may be desirable in these environments to generate search results based on group search habits.

[0308] FIG. 20 provides an exemplary flow diagram summarizing methods for handling shared search environments according to embodiments of the invention. The method 2000 is

illustrated with respect to three searchers participating in a group search. It will be appreciated that any number of searchers is possible within the scope of the invention.

[0309] The method 2000 may begin by processing client login 2002. Client login may be processed 2002 in any useful way to receive any useful login information. Because the group search may use information from multiple clients, it may be desirable or necessary for the method 2000 to know which client (or at least which group) is currently searching. As such, the client login may be processed 2002 to receive information, such as an identifier for the client (e.g. a user name and password), and an identifier for the client's group (or the group association may be stored in relation to the client's identifier).

[0310] It will be appreciated that in different contexts, various searchers may search simultaneously or at different times, and from the same or different locations. In some embodiments, one searcher may perform a search one day, and a second searcher may perform a different search the next day. In some other embodiments, the first and second searchers may both search at the same time, but from different terminals. For example, a wife may search from her laptop computer while her husband searches from his laptop computer. In still other embodiments, multiple searchers may search in parallel on the same terminal. For example, a husband and wife may jointly view search results, but rate them differently as they proceed. It will be further appreciated that one individual or entity may act as multiple searchers. For example, a person may search for one criterion one day and for a second criterion the next day.

[0311] After processing the client login 2002, the method 2000 may receive the client's search request 2004. For example, Client 1 may search for footage of kitchens in homes for sale in Boulder, Colorado. Client 2 may also be searching for homes for sale in Boulder, Colorado, but may be interested in footage of master bathrooms. Further, the client's search request may be received 2004 in any useful way. For example, the method 2000 may receive a function with a set of Boolean variables and operators representing the search request.

[0312] After receiving the search request 2004, the method 2000 may transmit the client's search results 2006. The search results may be transmitted 2006 using any useful channels and in any useful form. In some embodiments, the set of search results may be transmitted 2006 over the Internet in the form of a montage video file with cue points for each search result in the set. For example, say again that Client 1 is searching for footage of kitchens in homes for sale in Boulder, Colorado. The search results may be transmitted 2006 as a

montage video file of all kitchens, with cue point locations at the start of each property's footage in the montage video file.

[0313] After the search results are transmitted 2006, the method may receive the client's rankings 2008. The client may rank footage in any useful way, and the client's rankings may be received 2008 in any useful way. In some embodiments, the method 2000 may provide GUI controls or other interactive elements for receiving client rankings. In other embodiments, the method 2000 may infer rankings from client activity or other information. For example, after viewing a portion of a montage video file, a particular client may click through to the full source video (e.g. a client looking at a montage video of all house exteriors may click through to the full property listing for one of the displayed exteriors). From this type of activity, the method 2000 may infer that the client likes that particular house exterior.

[0314] Further, in some embodiments, the method 2000 will be configured to allow the client to rank each search result. For example, if the set of search results is transmitted 2006 as a montage video file with cue points representing each search result in the set, the method 2000 may be configured to allow the client to rank the footage at each cue point. Additionally, rankings may comprise any indicator of preference. For example, a ranking may comprise only a positive or negative indication (e.g. a "thumb's up"). It will be appreciated that many ranking methods are possible within the scope of the invention.

[0315] In some embodiments, either after or while the client rankings are received 2008, the method 2000 may generate a results dataset 2010 for each client. The results dataset may be generated 2010 in any useful way to record the rankings of the client. For example, the results dataset may be a list of results, sorted by ranking. In another example, the results dataset may be a multi-dimensional relational dataset, comprising the rankings as attributes of the cue points in the montage video file.

[0316] Either after or while client rankings are received 2008 (or after or while the results dataset is generated 2010), the method 2000 may compare rankings 2020 from different clients in the group. This rankings comparison 2020 may be performed using any useful process or algorithm. For example, rankings may be compared 2020 using data processing algorithms or Boolean operations.

[0317] Say John, Sally, and Steve are looking for a house where they can live as roommates. John wants a large kitchen, so he searches for footage of kitchens in homes for sale in Boulder, Colorado. His search yields five results: Home1, Home2, Home3, Home4,

and Home5. After watching a montage video file of kitchen footage, John gives a positive ranking to Home1, Home4, and Home2; and a negative ranking to Home3 and Home5. Sally is also searching for homes for sale in Boulder, Colorado, but is interested in a luxurious master bathroom. Sally's search generates only four results: Home1, Home3, Home4, and Home5 (i.e. all the homes listings for sale in Boulder, Colorado contain footage of both the kitchen and the master bathroom, except the listing for Home2). After watching a montage video file of master bathroom footage, Sally gives a positive ranking to Home1, Home4, and Home3; and a negative ranking to Home5. Comparing John's and Sally's rankings yields two homes (Home1 and Home4) which received positive rankings from both John and Sally. Now, say Steve only cares about the "curb appeal" of the house, and wants to look at exterior footage. His search for footage of exteriors yields the same five results as John's search (i.e. all the homes listings for sale in Boulder, Colorado contain footage of both the kitchen and the exterior). After watching a montage video file of exterior footage, Steve gives a positive ranking only to Home4. Comparing the rankings with Steve's rankings included yields only one house (Home4) which received positive rankings from all three roommates.

[0318] After comparing the rankings 2020, a synergy list may be generated 2022, representing the results of the rankings comparison 2020. In some embodiments, the synergy list may be transmitted 2030 to some other location in some useful format. For example, the synergy list may be transmitted 2030 as a dataset to be stored in a database. In some other embodiments, the synergy list may be used to generate a montage video file 2040 comprising footage of the results in the synergy list. For example, montage video file may comprise the full footage of all property listings which received positive rankings from all searchers, with cue point locations representing each individual listing within the montage video. Further, in some embodiments, the montage video file may be transmitted 2042 to a useful location, like a video server or a video playback environment.

[0319] FIG. 21 provides an exemplary screen shot of embodiments of shared search environments according to embodiments of the invention. It will be appreciated that many types of shared search environments are possible, and that those many types may be viewed in any effective way. As such, the screenshot 2100 of Fig. 21 is intended for illustrative purposes and should not be construed to limit the invention.

[0320] The client in this exemplary search environment submitted a query for video footage relating to exteriors of homes for sale in a certain area. The client's search returned a

montage video file comprising video relating to four results, represented by the four result cue point controls 2120-1, 2120-2, 2120-3, and 2120-4. As illustrated, each result cue point control 2120 represents a time position in the video montage file relating to footage of a particular home exterior.

[0321] The screenshot 2100 comprises several GUI elements, including a video frame 2102, a search results area 2104, and a rating area 2106. The video frame 2102 is configured to play video data (e.g. the montage video file) and related information (e.g. comment information, elapsed time, etc.), and to allow for client interactivity with the video data (e.g. by providing navigational GUI controls, like a "pause" button and a playback position slider). Further, the video frame 2102 is configured to progressively download the video data, so that the client may play video data as it loads.

[0322] The search results area 2104 is configured to display search results in a useful way. As illustrated, the search results area 2104 may display both the result cue point controls 2120 and ratings indicators 2140 relating to the search results. The result cue point controls 2120 may each represent a time position in a video montage file. By interacting with a cue point control 2120, a client may jump to the associated location within the montage video file. For example, as illustrated, the client has selected the "1 Lucky Street" cue point control 2120-2 (represented by the inverted coloration), representing footage of the exterior of the house at 1 Lucky Street. The footage begins 34 seconds into the montage video file. Therefore, the montage video file is playing in the video frame 2102 from the time position of 34 seconds.

[0323] The search results area 2104 may also provide ratings indicators 2140 relating to the search results. For example, here, the client is the third searcher in a search group. For each result cue point control 2120, the client can see the ratings from each other searcher, if any, given to the listing represented by each cue point. These ratings are represented as the ratings indicators 2140 within each result cue point control 2120. For example, the first property listing at 5 Happy Lane (represented by the cue point control 2120-1) has been positively rated (indicated by a "thumb's up" icon) by the other two raters (see 2140-1 and 2140-2).

[0324] It will be appreciated that various types of ratings information from other searchers may be available in different ways. For example, the ratings indicators 2140 may be positioned, colored, or otherwise differentiated to represent which rater provided each rating. In another example, ratings of some or all other raters may be hidden from one or all other

raters. In a third example, ratings may be available from all raters, not just those within the client's search group. In a fourth example, derivative information, like statistics, suggestions, etc. may be provided based on various data (e.g. the client's search or rating patterns, the behaviors of the search group, the behaviors of larger populations of searchers, etc.).

[0325] In some embodiments, the cue points may load progressively along with the montage video data. In some cases, cue points may become active (e.g. available for interaction) only after their respective video data loads. For example, in the illustrated embodiment, the third and fourth cue points ("1554 Violet Ave" and "1983 Violet Ave", respectively) represent time positions at 3:30 and 5:00 in the montage video file, but only the first three minutes of video data have loaded. Therefore, the third and fourth cue points may remain active until more video data loads. This inactive status may be represented in some useful way by the GUI, for example by changing the weight of the lines and text associated with the third and fourth cue point controls (see 2120-3 and 2120-4, respectively).

[0326] In other embodiments, cue points may be activated before their respective video data loads. For example, cue points may load when the video data begins to download. When a client selects a cue point before its respective video data has loaded, the video data may begin to progressively download from that cue point time position. When the video data for that cue point has finished loading, other video data may continue to load in any desirable order.

[0327] The ratings area 2106 may comprise any number of useful rating elements. In the illustrated embodiment, the ratings area 2106 comprises four GUI controls. The first two (2130-1 and 2130-2) provide the client with a way to interactively rate each listing. As illustrated, the client may interact with either the "thumbs up" button 2130-1 or the "thumbs down" button 2130-2 to positively or negatively rate the current listing (e.g. the property currently being displayed in the video frame 2102). The remaining two controls (2150-1 and 2150-2) allow the client to add comments associated with the listings or the ratings by interacting with the "Add Comments" button 2150-1; or to view comments associated with the listings or the ratings from any set of raters by interacting with the "View Comments" button 2150-2.

[0328] It will be appreciated that there are many different types of scenarios in which group searching would be desirable or necessary. Further, the many types of video information, cue point information, montage video files, video environments, property listings, clients, hosts

and other entities may yield many varying types of group search environments with varying characteristics. As such the invention should be construed broadly to encompass these many embodiments, and should not be limited by the described embodiments herein.

[0329] Thus, having described several embodiments, it will be recognized and appreciated that various modifications, alternative constructions, and equivalents may be used without departing from the spirit of the invention. Additionally, system components may be arranged differently and process steps may be performed in different orders within the scope of the invention. Accordingly, the above description should not be taken as limiting the scope of the invention, which is defined in the following claims.

WHAT IS CLAIMED IS:

1. A system for handling video cue points, the system comprising:

an application server in operative communication with a network;

a video server in operative communication with the application server and configured to serve a set of video information indexable by a set of video identifiers;

a cue point server in operative communication with at least one of the application server or the video server, and configured to serve a set of cue point information; and

a video environment

configured to be runnable by the application server,

configured to receive data over the network relating to interactions with a client terminal, and

comprising a cue point handler configured to execute at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information.

2. The system of claim 1, further comprising a data store configured to store at least a portion of the set of video information and at least a portion of the set of cue point information.

3. The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least a portion of the set of video information.

4. The system of claim 1, further comprising a relational database configured to store at least a portion of the set of cue point information in relation to at least another portion of the set of cue point information.

5. The system of claim 1, wherein the cue point information substantially defines at least one of a metatag, a cue point name, a cue point time position, or a cue point hierarchy.

6. The system of claim 1, wherein the video environment comprises at least one of a video player or a video editor.

7. The system of claim 1, further comprising an authentication server configured to authenticate clients of the system.

8. The system of claim 1, further comprising a comment handler configured to perform at least one of receiving, displaying, or associating comment information, wherein the comment information

comprises at least one of textual, audio, or video information, and

relates to at least a portion of at least one of the set of video information, the set of cue point information, or other comment information.

9. The system of claim 1, further comprising a video authorer configured to communicate with a video creation device.

10. The system of claim 1, wherein the video server is in operative communication with the application server via the network.

11. The system of claim 1, wherein the cue point server is in operative communication with at least one of the application server or the video server via the network.

12. The system of claim 1, wherein the network is the Internet.

13. A method for handling video cue points, the method comprising:

providing a computer system

having at least one computer-readable medium comprising a video editing environment, and

in operative communication with a network;

receiving, using the computer system, server video data from a set of stored video data;

transmitting over the network, using the computer system, a set of client video data based at least in part on the set of server video data;

receiving over the network, using the computer system, a set of cue point information; and

updating a set of cue point associations with at least one of the client video data, the server video data, or the stored video data, the set of cue point associations being based at least in part on the set of cue point information.

14. The method of claim 13, further comprising providing a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information.

15. The method of claim 13, further comprising generating, automatically by using the computer system, at least a portion of the set of cue point information.

16. The method of claim 14, further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode, and

transmitting the cue point editing mode after receiving the edit mode entry signal.

17. The method of claim 14, further comprising:

receiving an edit mode entry signal over the network representing entry into the cue point edit mode,

receiving a time position representing the time position within the client video data at which the edit mode entry signal was received, and

creating a cue point location associated at least in part with the client video data and the time position.

18. The method of claim 13, further comprising receiving, over the network, authentication information relating to access authority of a client terminal.

19. The method of claim 18, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

20. The method of claim 13, wherein the video editing environment comprises a server-level video editor.

21. The method of claim 13, wherein the client video data is transmitted to a video player configured to display video data on a client terminal.

22. The method of claim 21, wherein the client video data is transmitted progressively, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted.

23. The method of claim 13, wherein at least a portion of the server video data is received over the network.

24. A method for handling video cue points, the method comprising:

providing a computer system

having at least one computer-readable medium comprising a video playback environment, and

in operative communication with a network;

receiving, using the computer system, server video data from a set of stored video data;

receiving, using the computer system, server cue point information from a set of stored cue point information;

transmitting over the network, using the computer system, a set of client video data, at least part of which being

based on the set of server video data, and

playable on a client terminal;

transmitting over the network, using the computer system, a set of client cue point information, at least part of which being

based on the set of server cue point information,

and selectable by the client terminal;

receiving a selected cue point from the set of client cue point information; and

locating a time position in the client video data based at least in part on the selected cue point.

25. The method of claim 24, further comprising receiving, over the network, authentication information relating to access authority of a client terminal.

26. The method of claim 25, further comprising denying or allowing access to all or part of the video editing environment based at least in part on the access authority of the client terminal.

27. The method of claim 24, wherein the video playback environment comprises a video player configured to display video data on a client terminal.

28. The method of claim 27, wherein the client video data is transmitted progressively, allowing the video player to begin displaying transmitted client video data while remaining client video data continues to be transmitted.

29. The method of claim 27, wherein the client video data is transmitted progressively beginning from the time position in the client video data based at least in part on the selected cue point, allowing the video player to begin displaying transmitted client video data from the time position while remaining client video data continues to be transmitted.

30. The method of claim 24, further comprising transmitting over the network, using the computer system, a set of comment data, and

wherein the video playback environment comprises a comment handler configured to perform at least one of displaying at least a portion of the set of comment data on a client terminal or receiving at least a portion of the set of comment data over the network.

31. The method of claim 30, wherein the set of comment data comprises at least one of textual, audio, or video data at least a portion of which relating to at least one of the client video data, the set of client cue point information, or another portion of the set of comment data.

32. The method of claim 24, wherein at least a portion of the server video data is received over the network.

33. A method for handling video cue points, the method comprising:

accessing, over a network and using a client terminal, a host computer system comprising a video environment, the video environment comprising

a video handler configured to transmit video data over the network, and

a cue point handler configured to transmit cue point information over the network, at least part of the cue point information being related to at least part of the transmitted video data; and

interacting with at least part of the set of cue point information using the client terminal.

34. The method of claim 33, further comprising transmitting client authentication information over the network to the host computer system.

35. The method of claim 33, wherein the video environment comprises at least one of a video editing environment or a video playback environment.

36. The method of claim 33, further comprising accessing a cue point editing mode configured to perform at least one of creating, modifying, deleting, or interpreting at least a portion of the set of cue point information.

37. The method of claim 33, further comprising accessing a cue point editing mode by pausing playback of the client video data.

38. The method of claim 33, further comprising

accessing a cue point editing mode by pausing playback of the client video data at a time position, and

creating a cue point location associated at least in part with the client video data and the time position.

39. The method of claim 33, wherein the interacting step comprises performing at least one of creating, modifying, deleting, or interpreting a portion of the set of cue point information.

40. The method of claim 33, wherein the video environment comprises a video authoring environment configured to interface with a video creation device, and the method further comprises uploading video data using the video authoring environment.

METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE

ABSTRACT OF THE DISCLOSURE

Video data may be extremely useful in online property commerce. However, the current methods of handling this video data fail to provide users of the data with effective and convenient ways of conveying and consolidating footage of multiple viewpoints and other property features. Among other things, embodiments of the invention address these failures by providing methods and systems for better handling of video data for property marketing, reporting, and analysis.

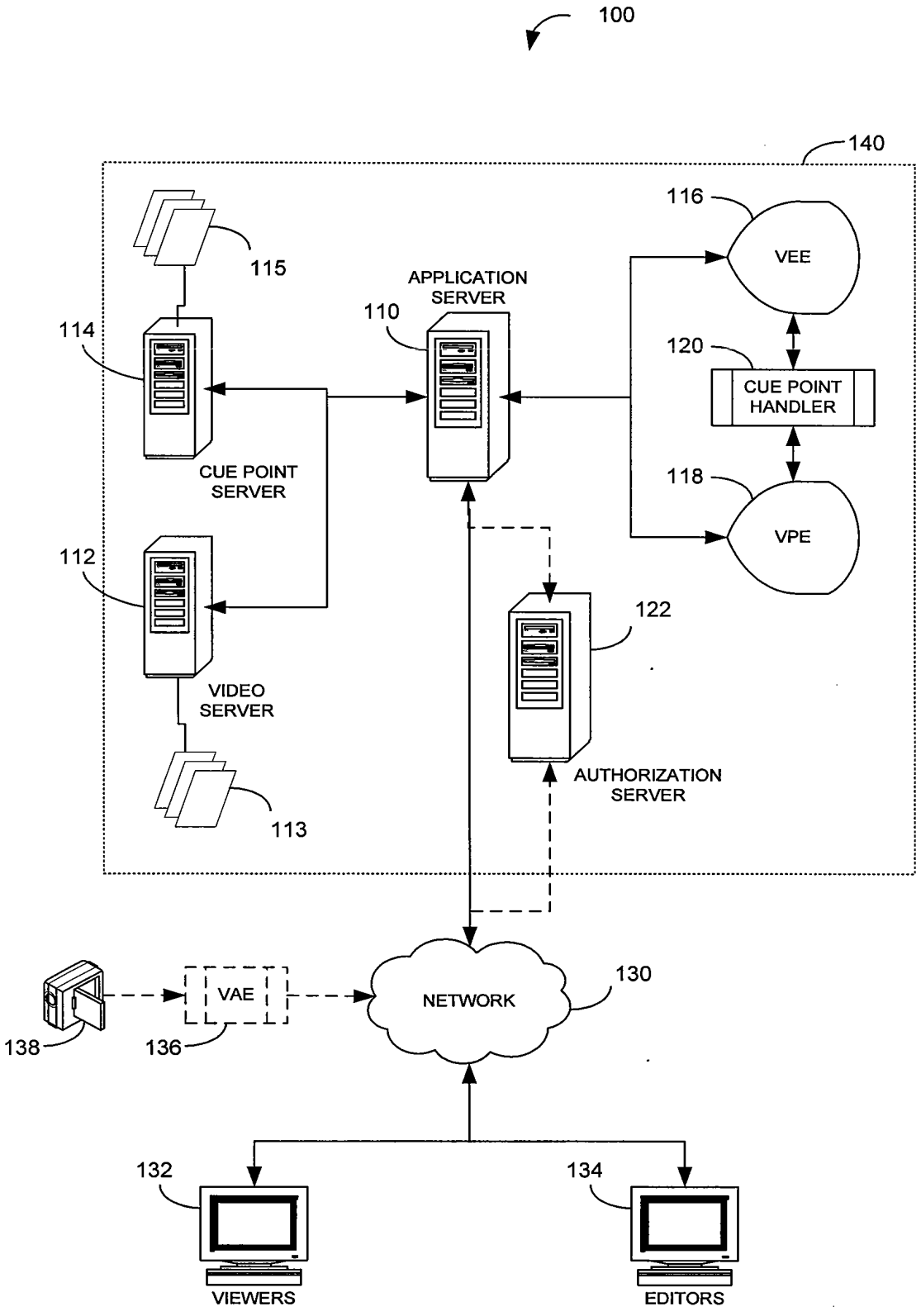

100
140
115
APPLICATION SERVER
110
116
VEE
114
120
CUE POINT HANDLER
CUE POINT SERVER
118
VPE
112
122
VIDEO SERVER
AUTHORIZATION SERVER
113
VAE
NETWORK
130
138
136
132
134
VIEWERS
EDITORS

Fig. 1A

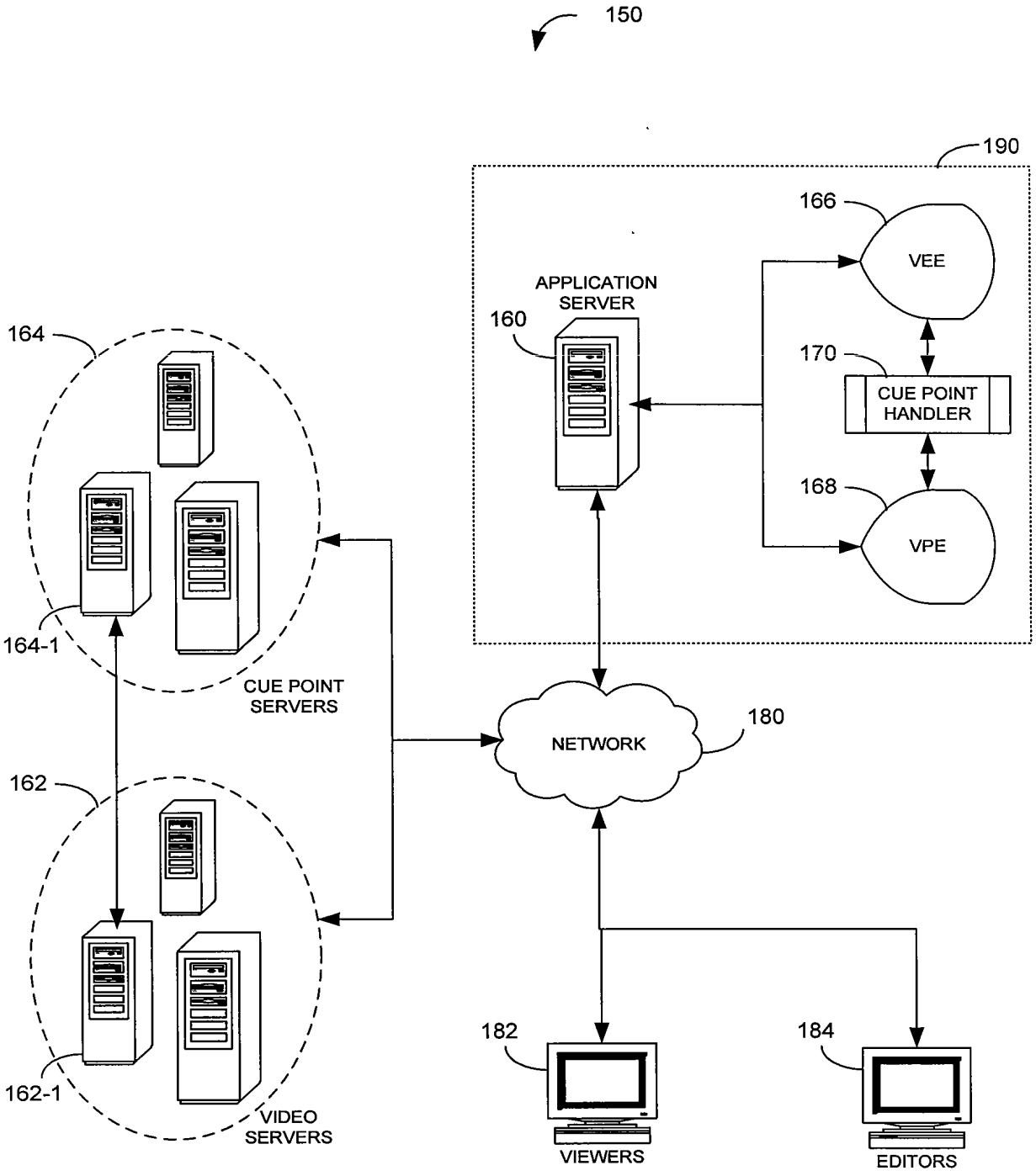

150
190
166
VEE
APPLICATION SERVER
160
170
CUE POINT HANDLER
168
VPE
164
164-1
CUE POINT SERVERS
NETWORK
180
162
162-1
VIDEO SERVERS
182
VIEWERS
184
EDITORS

Fig. 1B

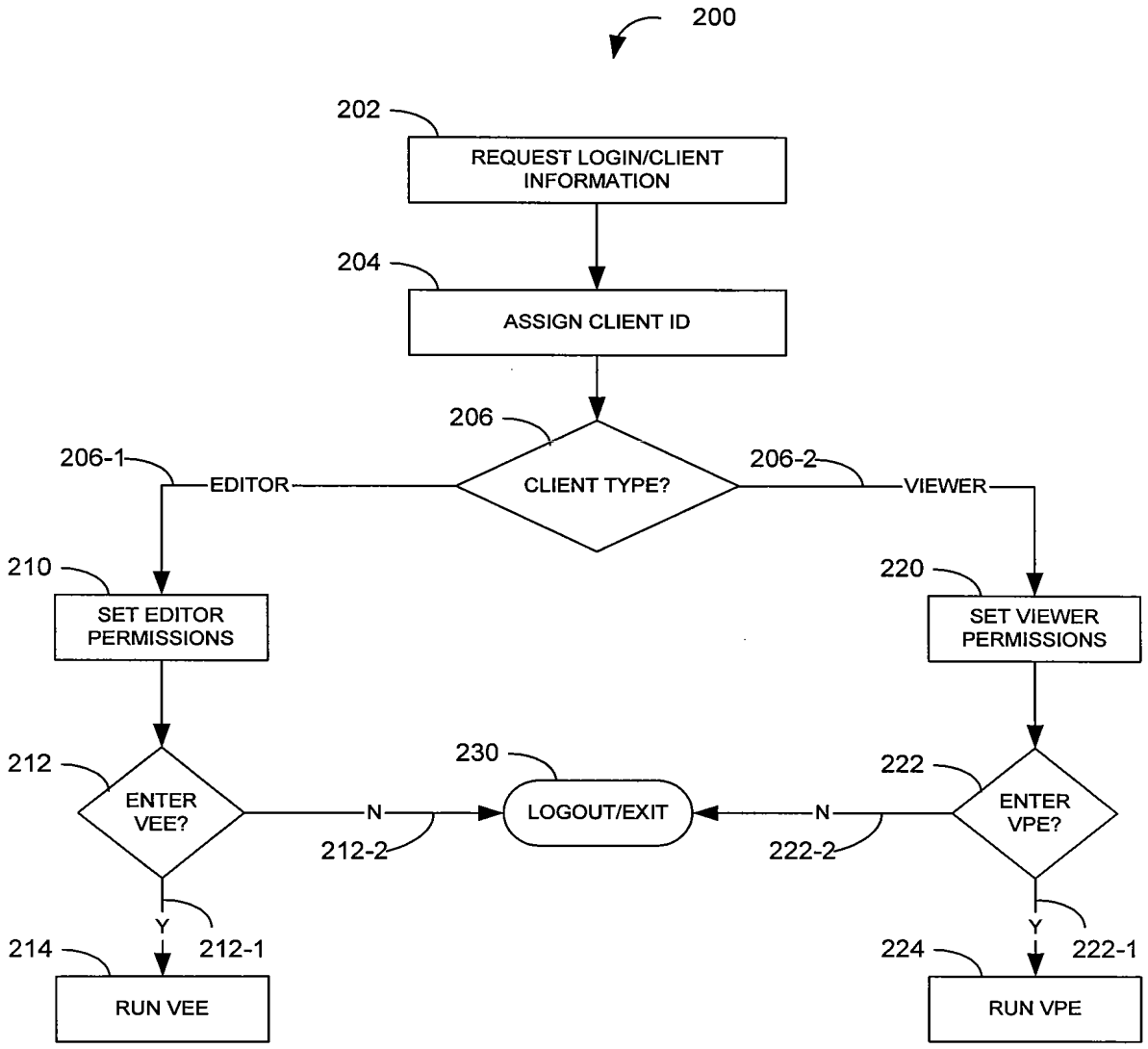

200
202
REQUEST LOGIN/CLIENT INFORMATION
204
ASSIGN CLIENT ID
206
CLIENT TYPE?
206-1
EDITOR
206-2
VIEWER
210
SET EDITOR PERMISSIONS
220
SET VIEWER PERMISSIONS
212
ENTER VEE?
N
212-2
230
LOGOUT/EXIT
N
222-2
222
ENTER VPE?
Y
212-1
214
RUN VEE
Y
222-1
224
RUN VPE

Fig. 2

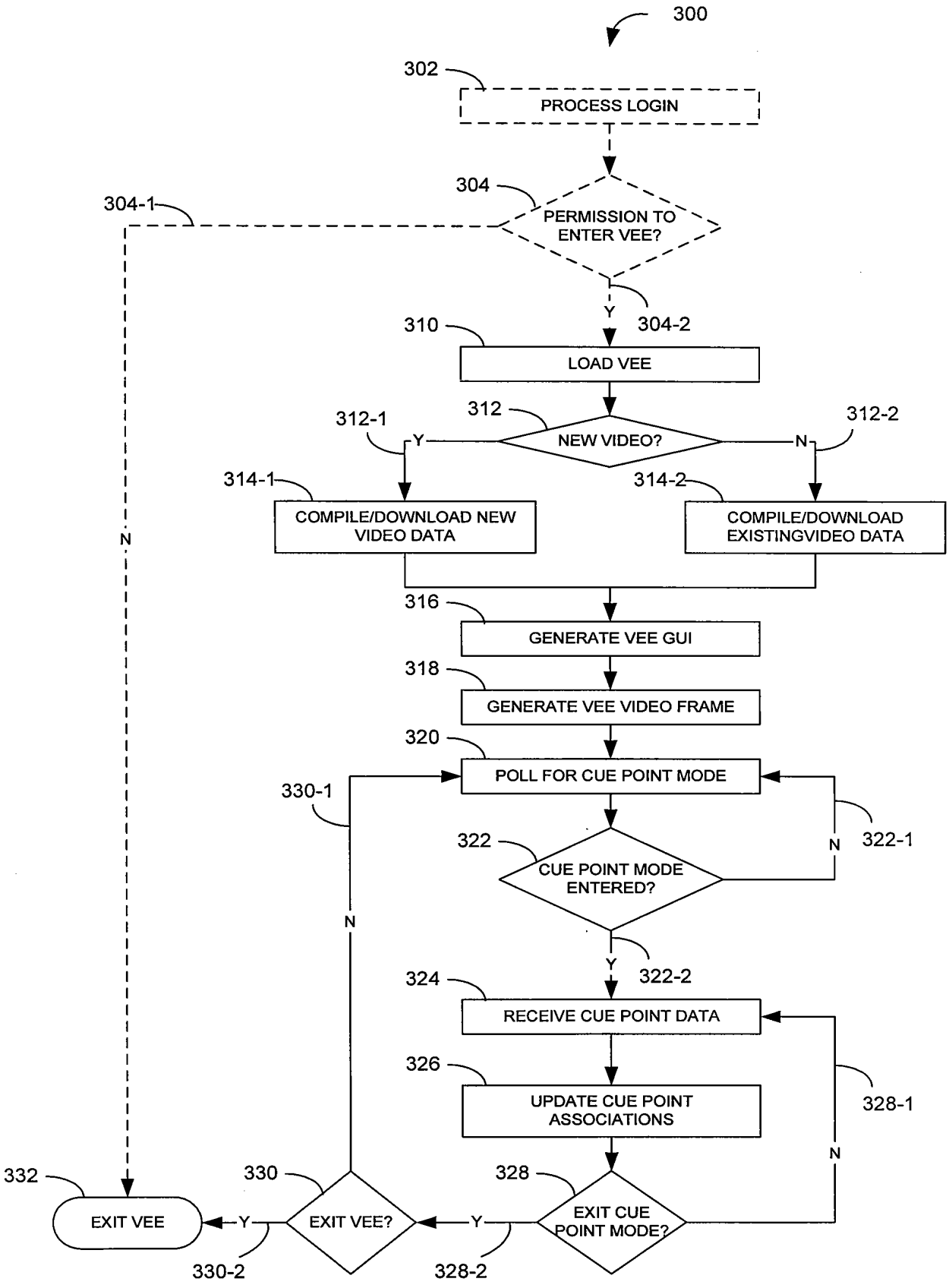

300
302
PROCESS LOGIN
304
PERMISSION TO ENTER VEE?
304-1
Y
304-2
N
310
LOAD VEE
312
NEW VIDEO?
312-1
Y
312-2
N
314-1
COMPILE/DOWNLOAD NEW VIDEO DATA
314-2
COMPILE/DOWNLOAD EXISTINGVIDEO DATA
316
GENERATE VEE GUI
318
GENERATE VEE VIDEO FRAME
320
POLL FOR CUE POINT MODE
330-1
322
CUE POINT MODE ENTERED?
N
322-1
Y
322-2
N
324
RECEIVE CUE POINT DATA
326
UPDATE CUE POINT ASSOCIATIONS
328-1
N
332
330
328
EXIT VEE
Y
EXIT VEE?
Y
EXIT CUE POINT MODE?
330-2
328-2

Fig. 3A

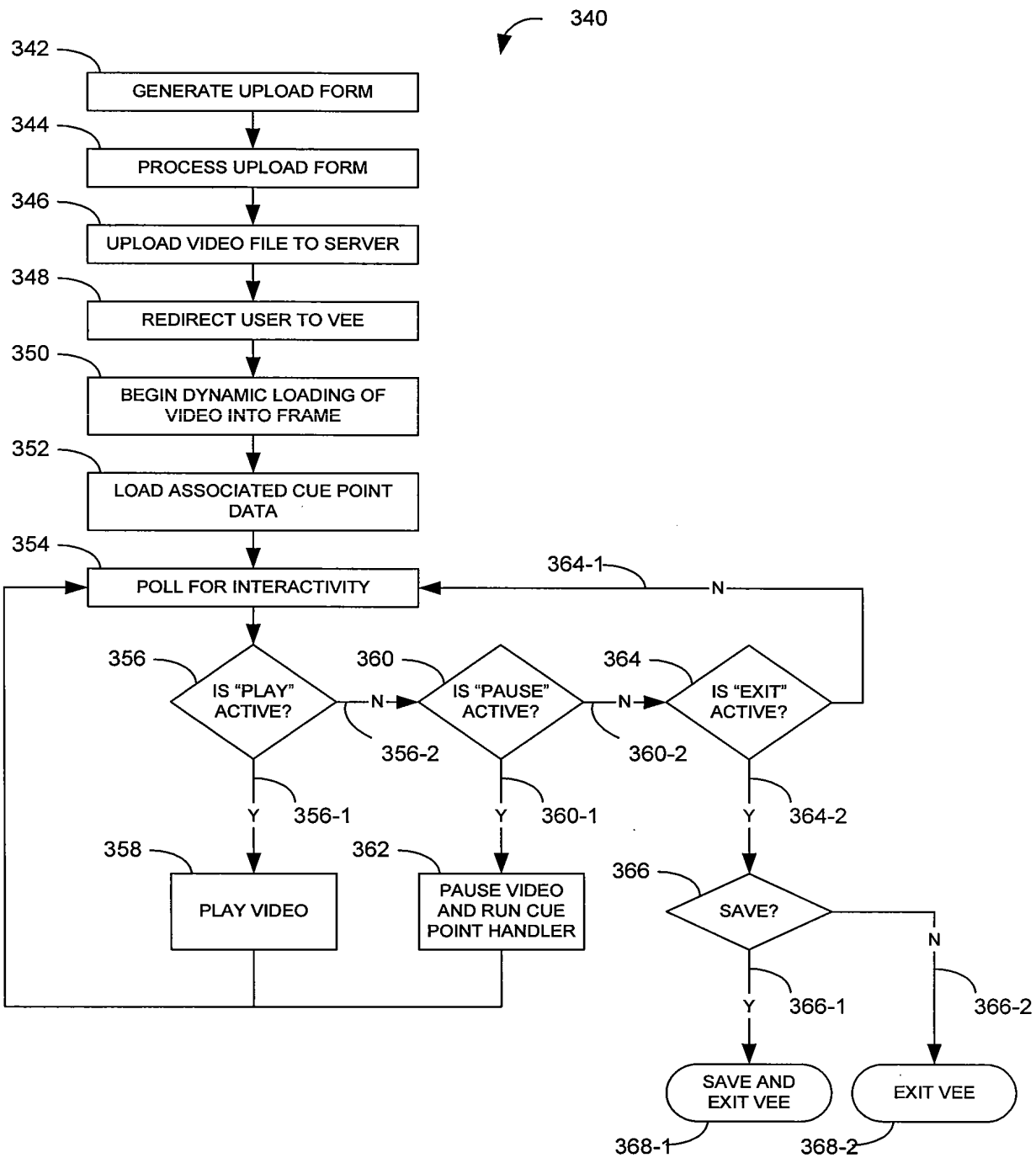

340
342
GENERATE UPLOAD FORM
344
PROCESS UPLOAD FORM
346
UPLOAD VIDEO FILE TO SERVER
348
REDIRECT USER TO VEE
350
BEGIN DYNAMIC LOADING OF VIDEO INTO FRAME
352
LOAD ASSOCIATED CUE POINT DATA
354
POLL FOR INTERACTIVITY
364-1
N
356
IS "PLAY" ACTIVE?
N
356-2
360
IS "PAUSE" ACTIVE?
N
360-2
364
IS "EXIT" ACTIVE?
Y
356-1
Y
360-1
Y
364-2
358
PLAY VIDEO
362
PAUSE VIDEO AND RUN CUE POINT HANDLER
366
SAVE?
N
366-2
Y
366-1
SAVE AND EXIT VEE
EXIT VEE
368-1
368-2

Fig. 3B

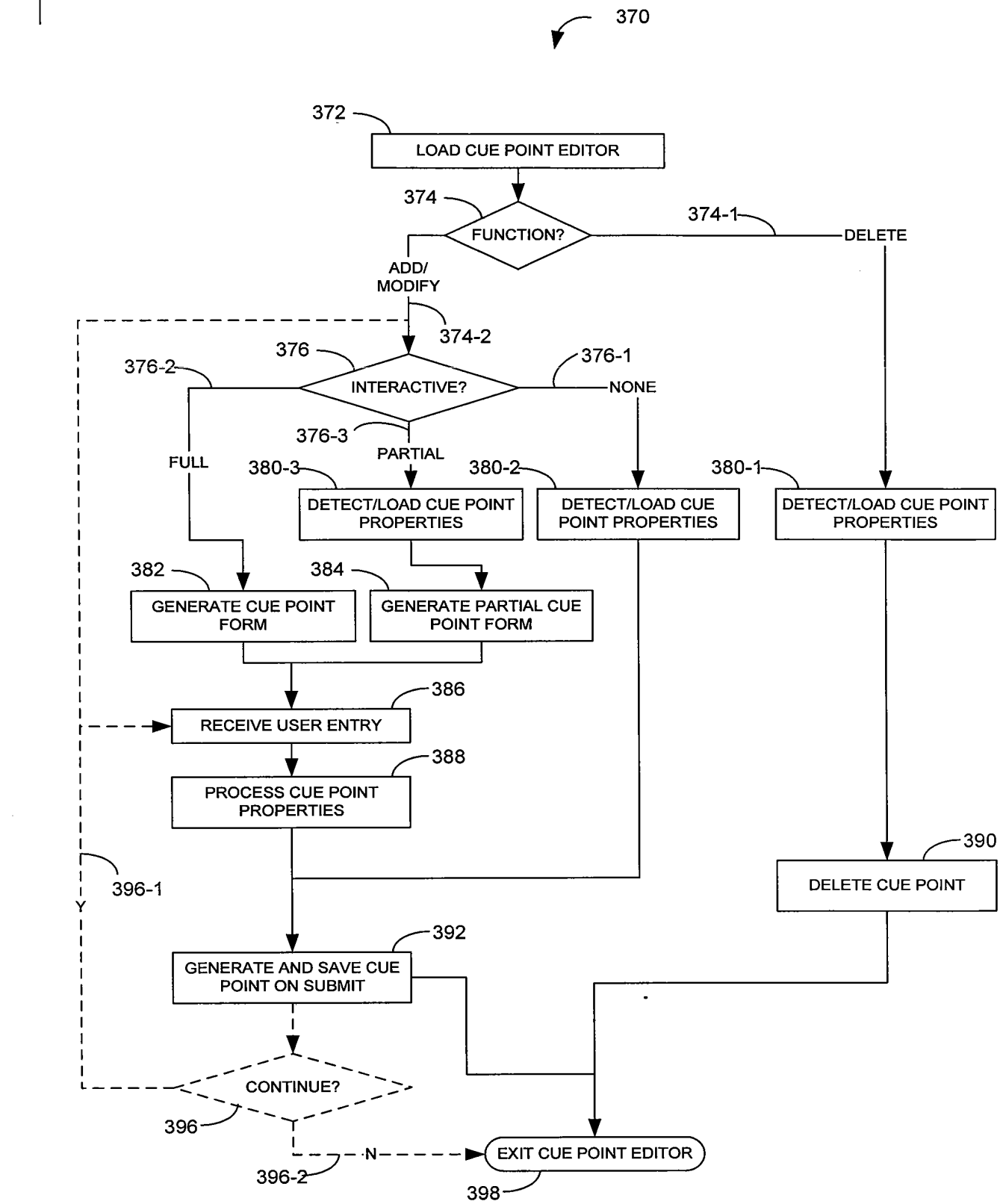

370
372
LOAD CUE POINT EDITOR
374
FUNCTION?
374-1
DELETE
ADD/
MODIFY
374-2
376
INTERACTIVE?
376-1
NONE
376-2
376-3
PARTIAL
FULL
380-3
380-2
380-1
DETECT/LOAD CUE POINT PROPERTIES
DETECT/LOAD CUE POINT PROPERTIES
DETECT/LOAD CUE POINT PROPERTIES
382
384
GENERATE CUE POINT FORM
GENERATE PARTIAL CUE POINT FORM
386
RECEIVE USER ENTRY
388
PROCESS CUE POINT PROPERTIES
390
DELETE CUE POINT
396-1
Y
392
GENERATE AND SAVE CUE POINT ON SUBMIT
CONTINUE?
396
N
396-2
EXIT CUE POINT EDITOR
398

Fig. 3C

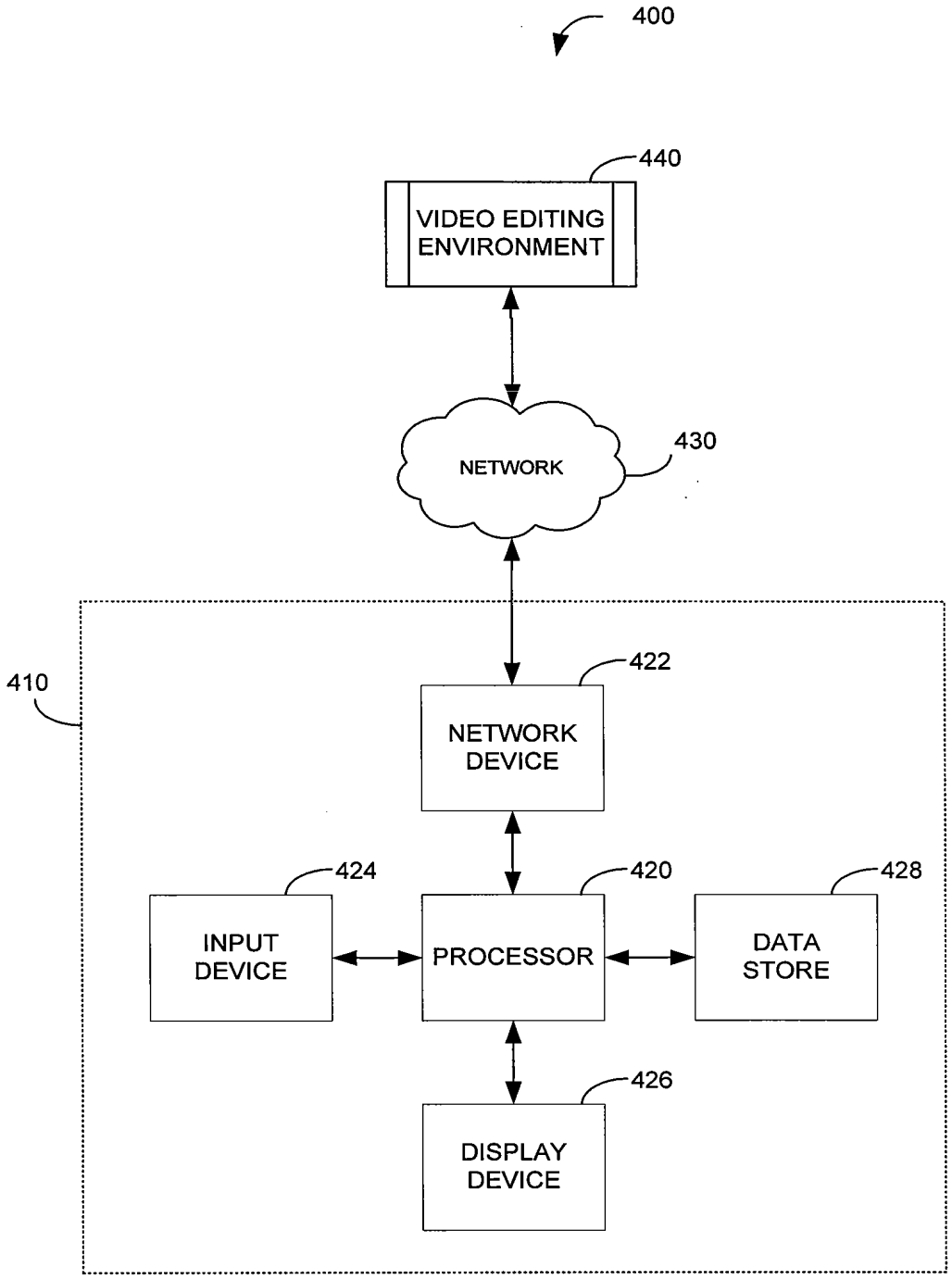

400
440
VIDEO EDITING ENVIRONMENT
NETWORK
430
410
422
NETWORK DEVICE
424
420
428
INPUT DEVICE
PROCESSOR
DATA STORE
426
DISPLAY DEVICE

Fig. 4

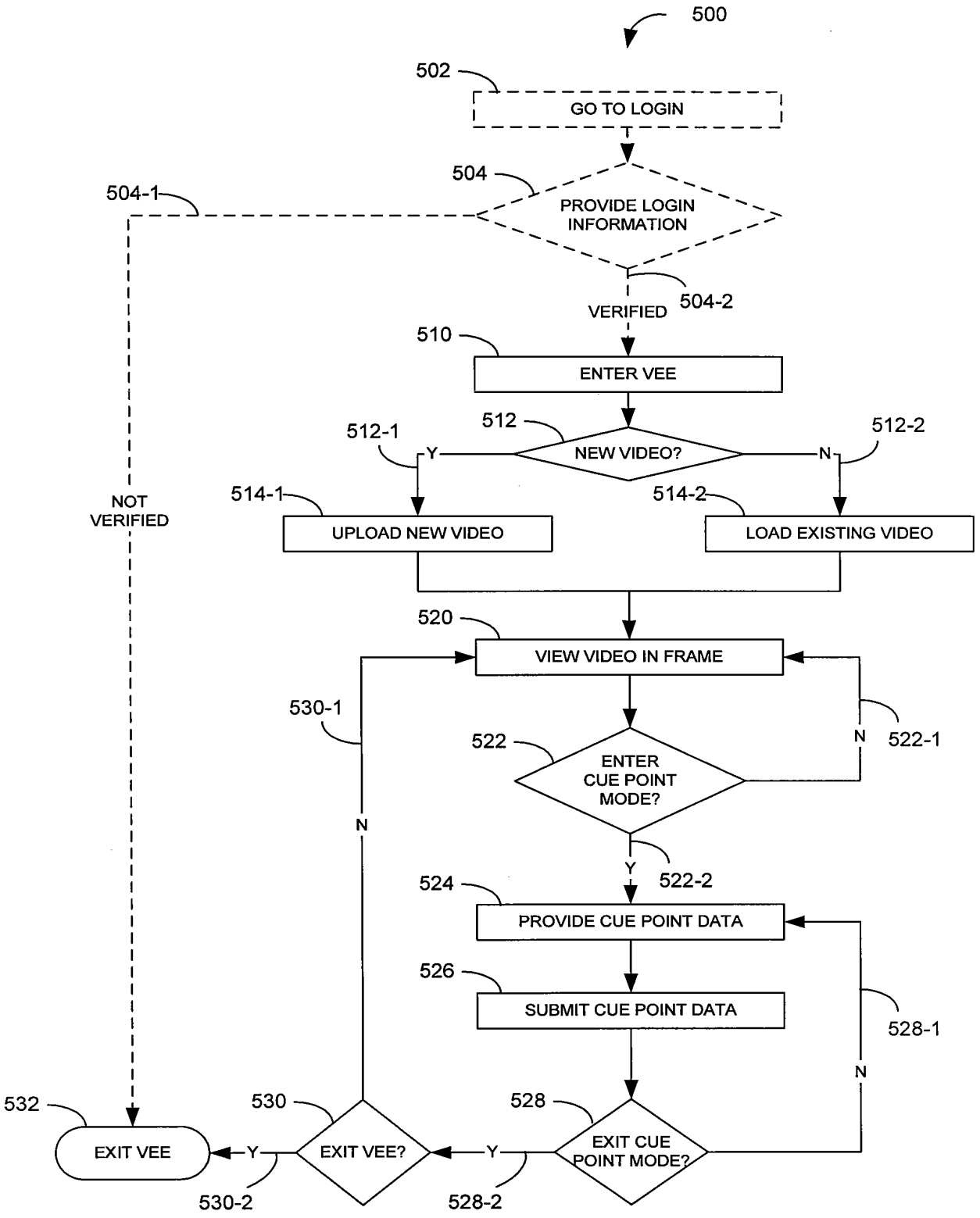

500
502
GO TO LOGIN
504
PROVIDE LOGIN INFORMATION
504-1
NOT VERIFIED
VERIFIED
504-2
510
ENTER VEE
512
NEW VIDEO?
512-1
Y
512-2
N
514-1
UPLOAD NEW VIDEO
514-2
LOAD EXISTING VIDEO
520
VIEW VIDEO IN FRAME
530-1
522
ENTER CUE POINT MODE?
N
522-1
Y
522-2
524
PROVIDE CUE POINT DATA
526
SUBMIT CUE POINT DATA
528-1
N
532
EXIT VEE
530
EXIT VEE?
Y
530-2
528
EXIT CUE POINT MODE?
Y
528-2
N

Fig. 5

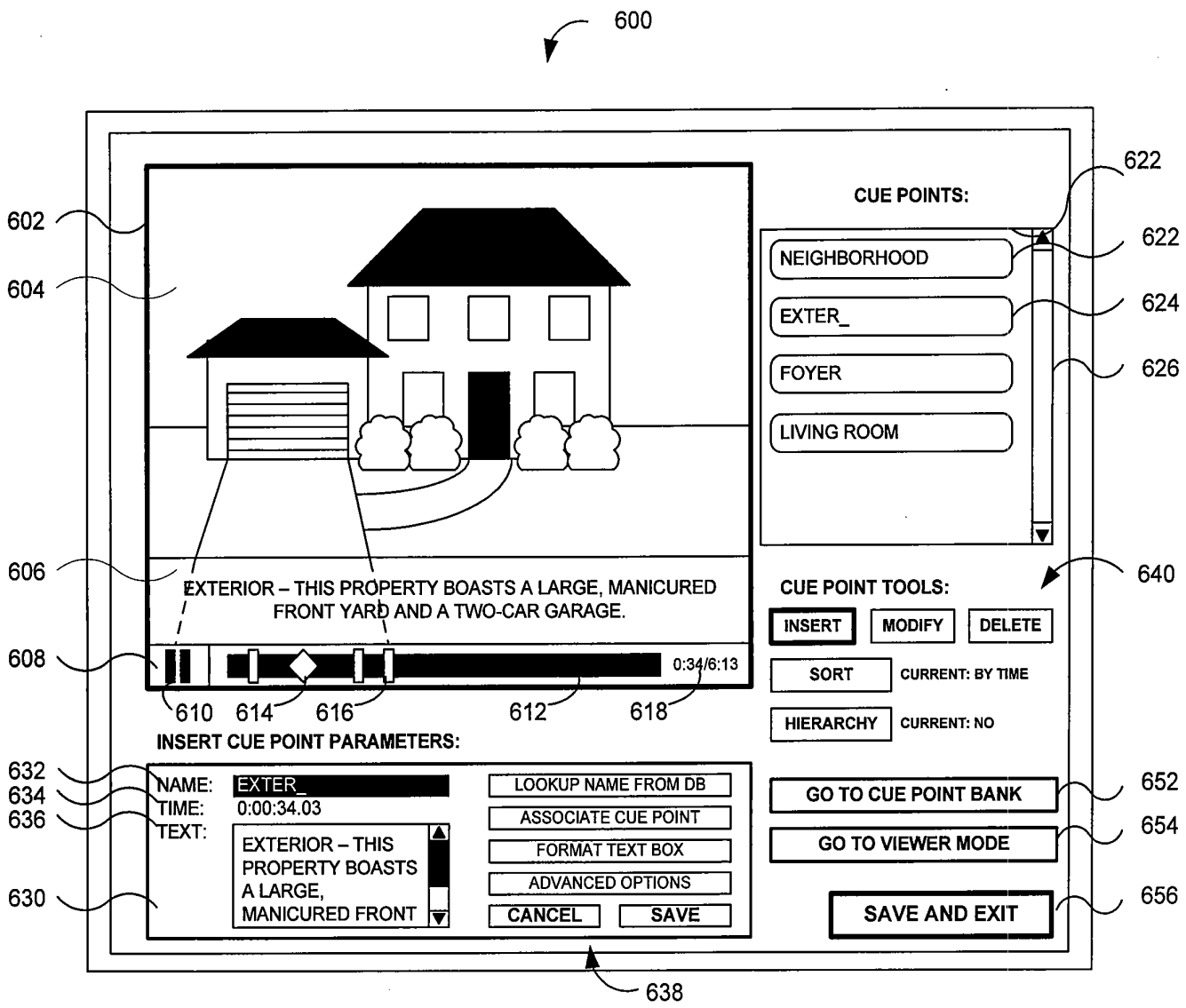

600
602
604
606
608
610
614
616
612
618
622
622
624
626
640
630
632
634
636
638
652
654
656
CUE POINTS:
NEIGHBORHOOD
EXTER_
FOYER
LIVING ROOM
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
0:34/6:13
CUE POINT TOOLS:
INSERT
MODIFY
DELETE
SORT
CURRENT: BY TIME
HIERARCHY
CURRENT: NO
INSERT CUE POINT PARAMETERS:
NAME:
EXTER_
TIME:
0:00:34.03
TEXT:
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT
LOOKUP NAME FROM DB
ASSOCIATE CUE POINT
FORMAT TEXT BOX
ADVANCED OPTIONS
CANCEL
SAVE
GO TO CUE POINT BANK
GO TO VIEWER MODE
SAVE AND EXIT

Fig. 6

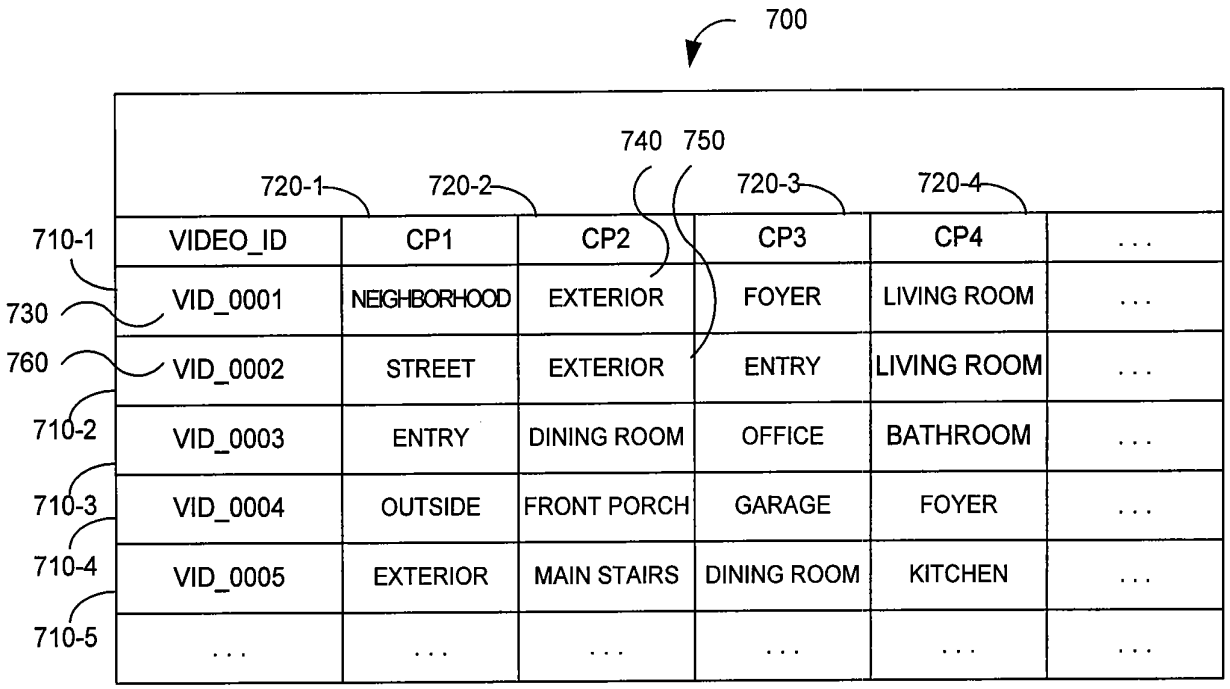

700
740
750
720-1
720-2
720-3
720-4
710-1
730
760
710-2
710-3
710-4
710-5
VIDEO_ID
CP1
CP2
CP3
CP4
VID_0001
NEIGHBORHOOD
EXTERIOR
FOYER
LIVING ROOM
VID_0002
STREET
EXTERIOR
ENTRY
LIVING ROOM
VID_0003
ENTRY
DINING ROOM
OFFICE
BATHROOM
VID_0004
OUTSIDE
FRONT PORCH
GARAGE
FOYER
VID_0005
EXTERIOR
MAIN STAIRS
DINING ROOM
KITCHEN

Fig. 7

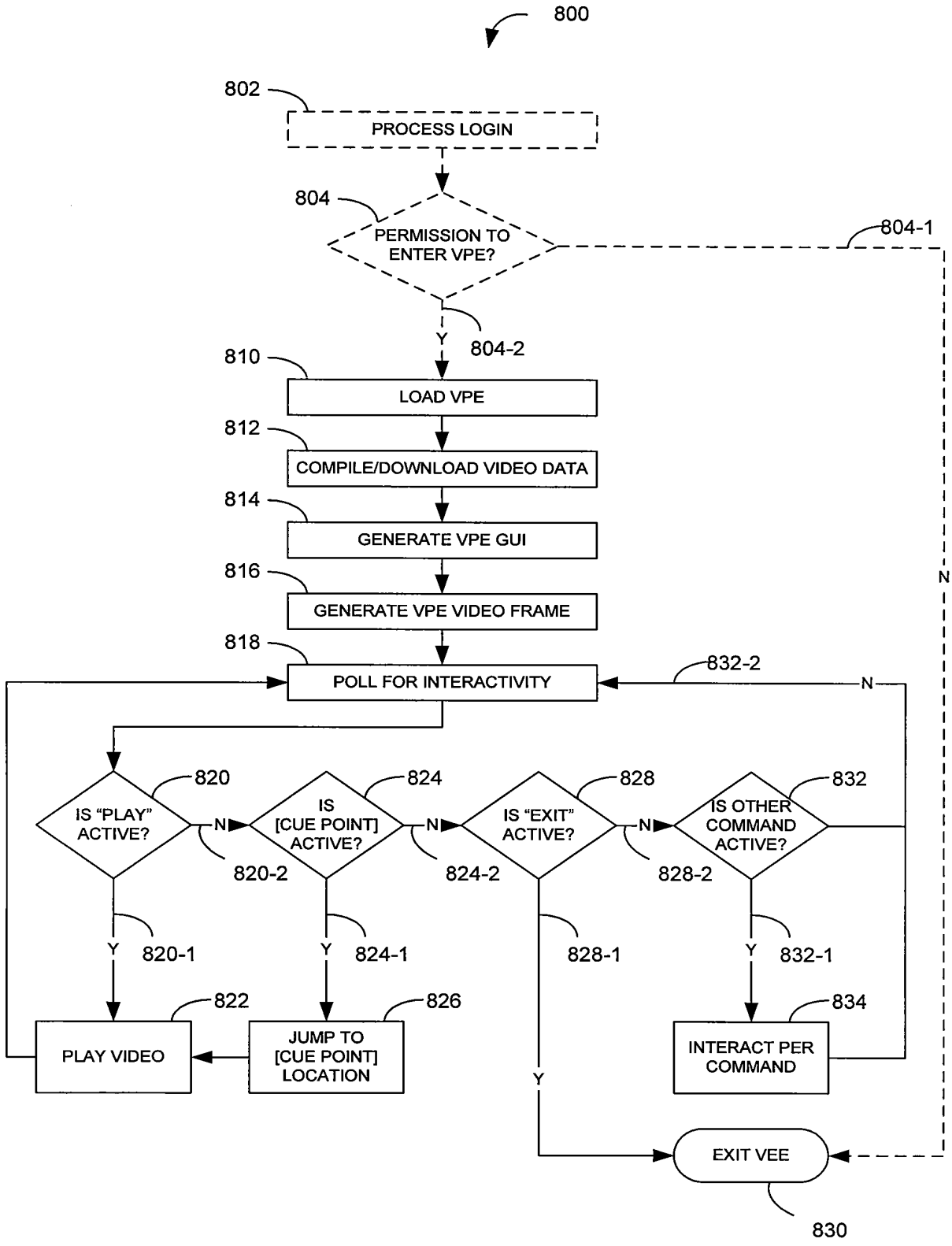

800
802
PROCESS LOGIN
804
PERMISSION TO ENTER VPE?
804-1
Y
804-2
N
810
LOAD VPE
812
COMPILE/DOWNLOAD VIDEO DATA
814
GENERATE VPE GUI
816
GENERATE VPE VIDEO FRAME
818
POLL FOR INTERACTIVITY
832-2
N
820
IS "PLAY" ACTIVE?
N
820-2
824
IS [CUE POINT] ACTIVE?
N
824-2
828
IS "EXIT" ACTIVE?
N
828-2
832
IS OTHER COMMAND ACTIVE?
Y
820-1
Y
824-1
828-1
Y
832-1
822
PLAY VIDEO
826
JUMP TO [CUE POINT] LOCATION
834
INTERACT PER COMMAND
Y
EXIT VEE
830

Fig. 8

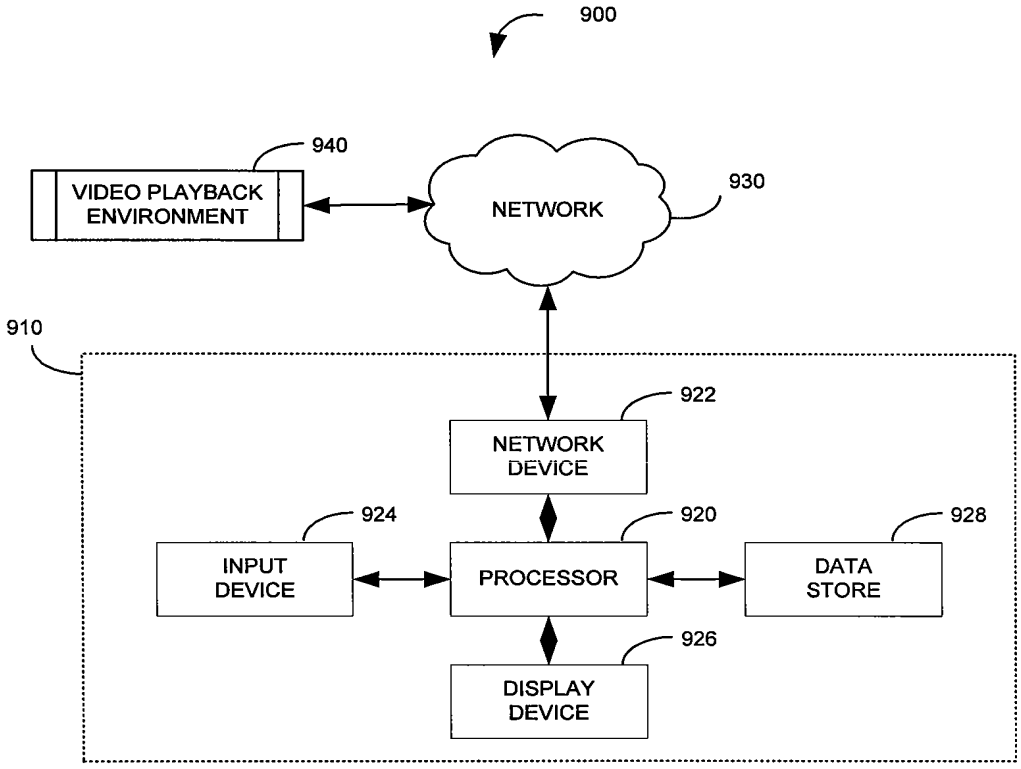

900
940
VIDEO PLAYBACK ENVIRONMENT
NETWORK
930
910
922
NETWORK DEVICE
924
920
928
INPUT DEVICE
PROCESSOR
DATA STORE
926
DISPLAY DEVICE

Fig. 9A

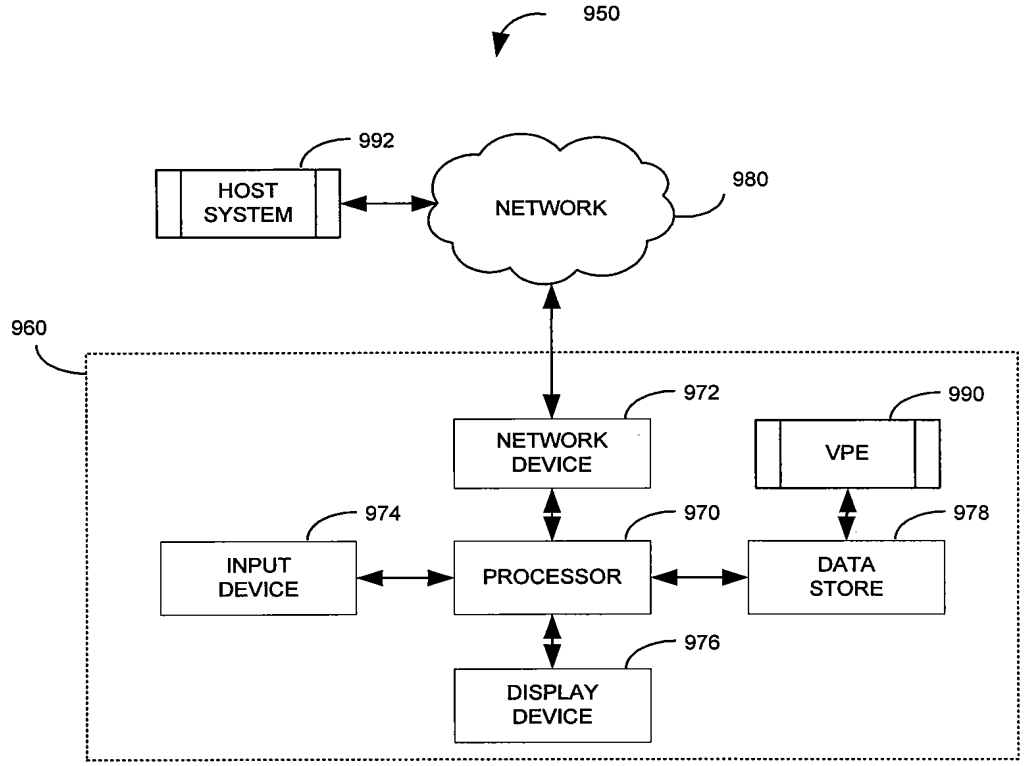

950
992
HOST SYSTEM
NETWORK
980
960
972
990
NETWORK DEVICE
VPE
974
970
978
INPUT DEVICE
PROCESSOR
DATA STORE
976
DISPLAY DEVICE

Fig. 9B

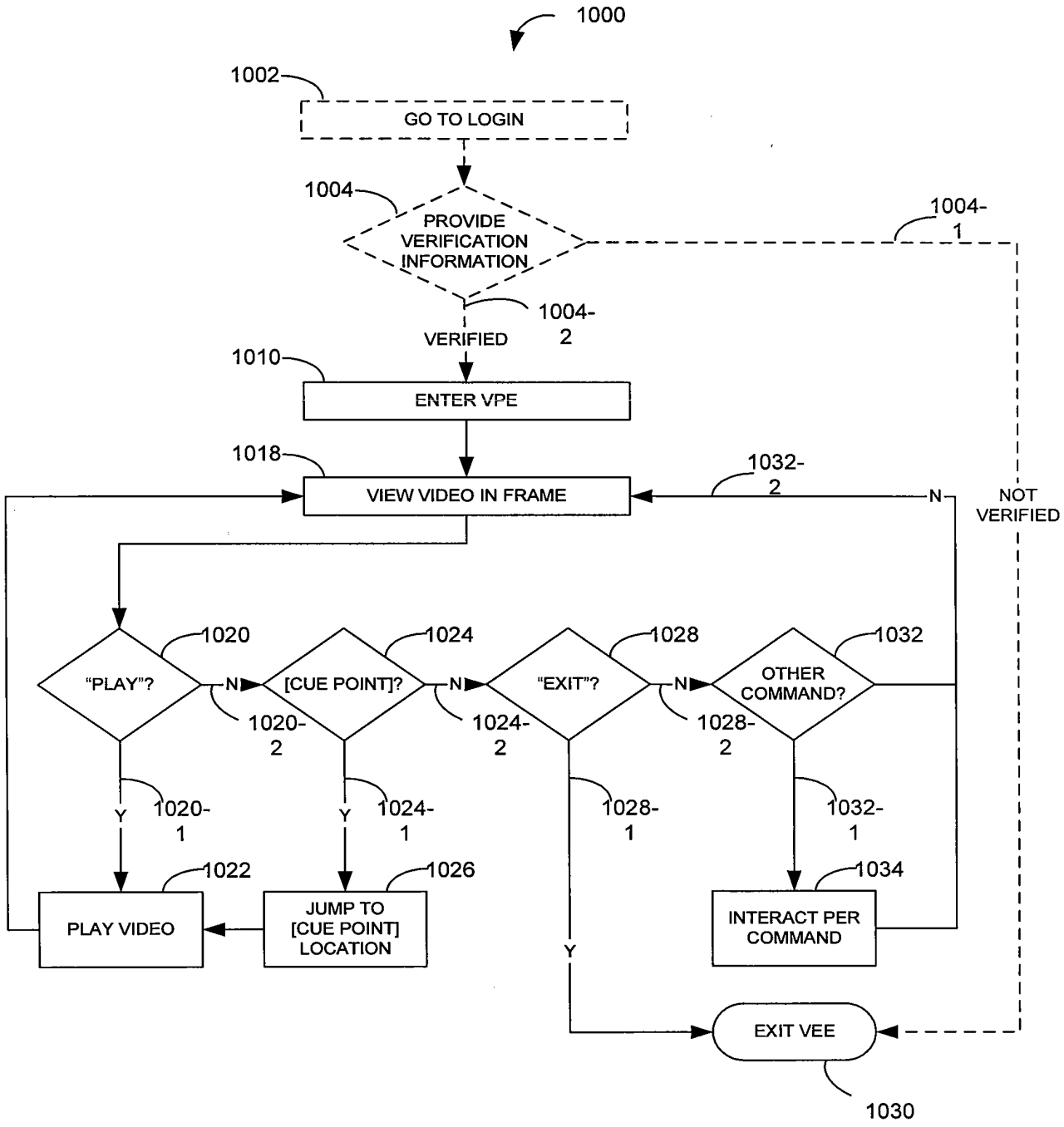

1000
1002
GO TO LOGIN
1004
PROVIDE VERIFICATION INFORMATION
1004-1
1004-2
VERIFIED
1010
ENTER VPE
1018
VIEW VIDEO IN FRAME
1032-2
N
NOT VERIFIED
1020
"PLAY"?
N
1020-2
1024
[CUE POINT]?
N
1024-2
1028
"EXIT"?
N
1028-2
1032
OTHER COMMAND?
Y
1020-1
Y
1024-1
1028-1
1032-1
1022
PLAY VIDEO
1026
JUMP TO [CUE POINT] LOCATION
1034
INTERACT PER COMMAND
Y
EXIT VEE
1030

Fig. 10

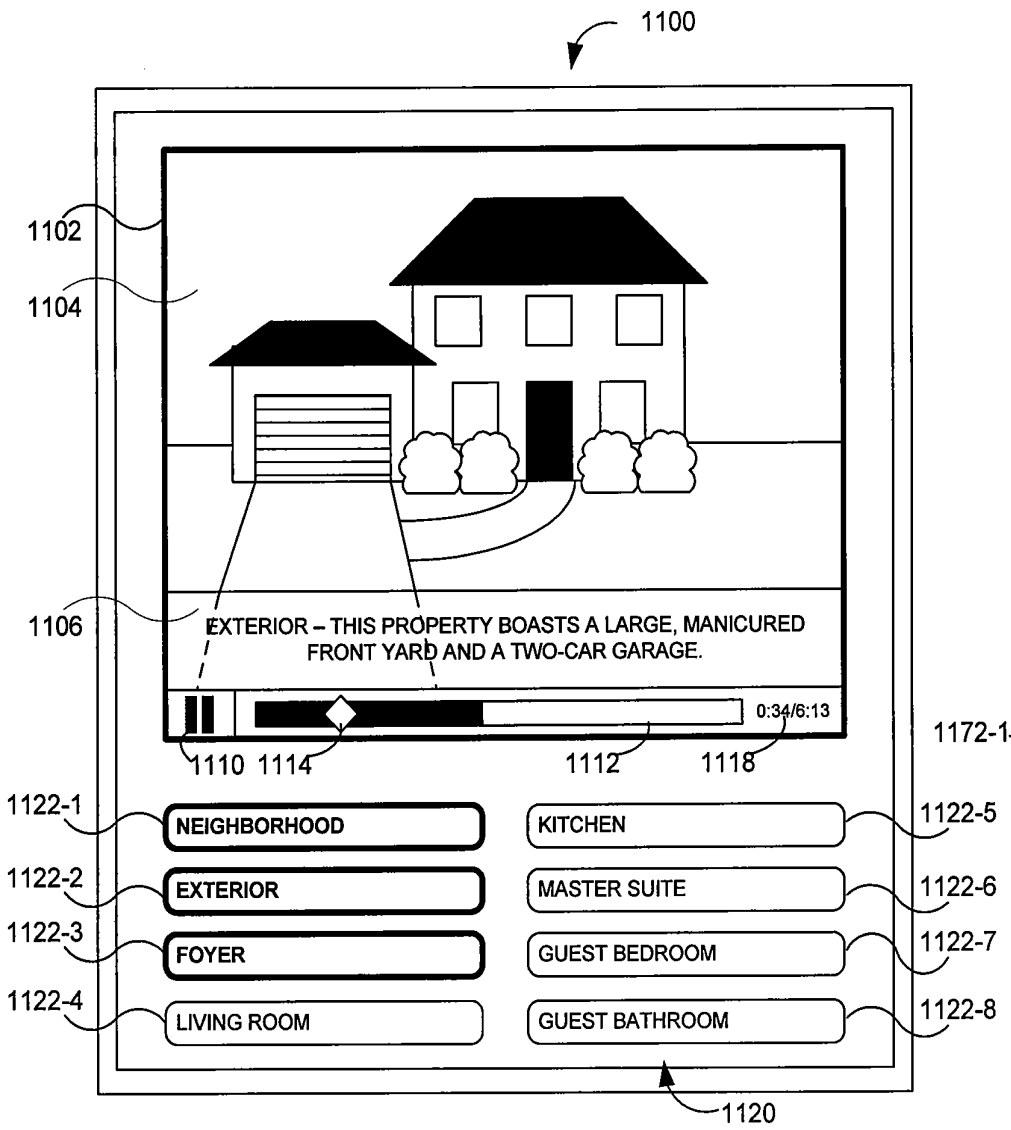


Fig. 11A

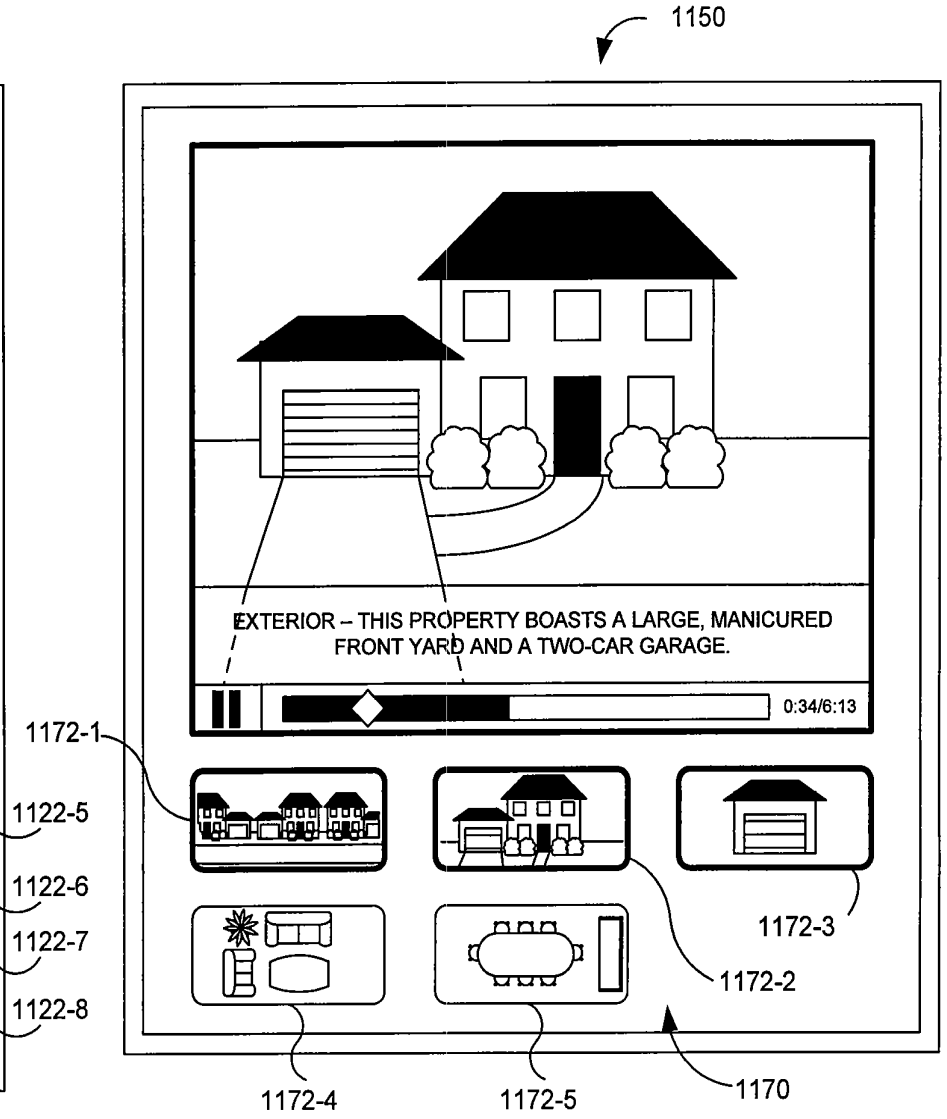


Fig. 11B

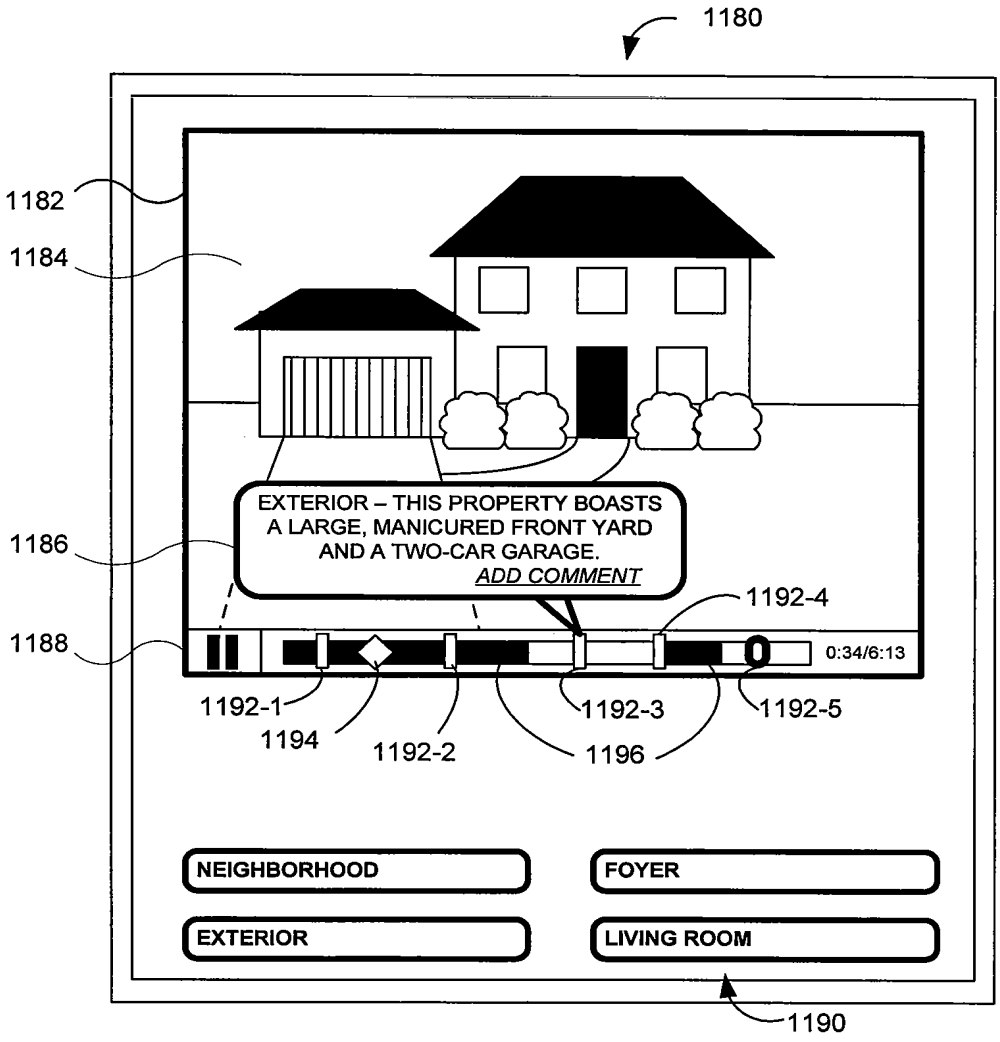

1180
1182
1184
1186
1188
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
ADD COMMENT
1192-4
0:34/6:13
1192-1
1194
1192-2
1192-3
1196
1192-5
NEIGHBORHOOD
FOYER
EXTERIOR
LIVING ROOM
1190

Fig. 11C

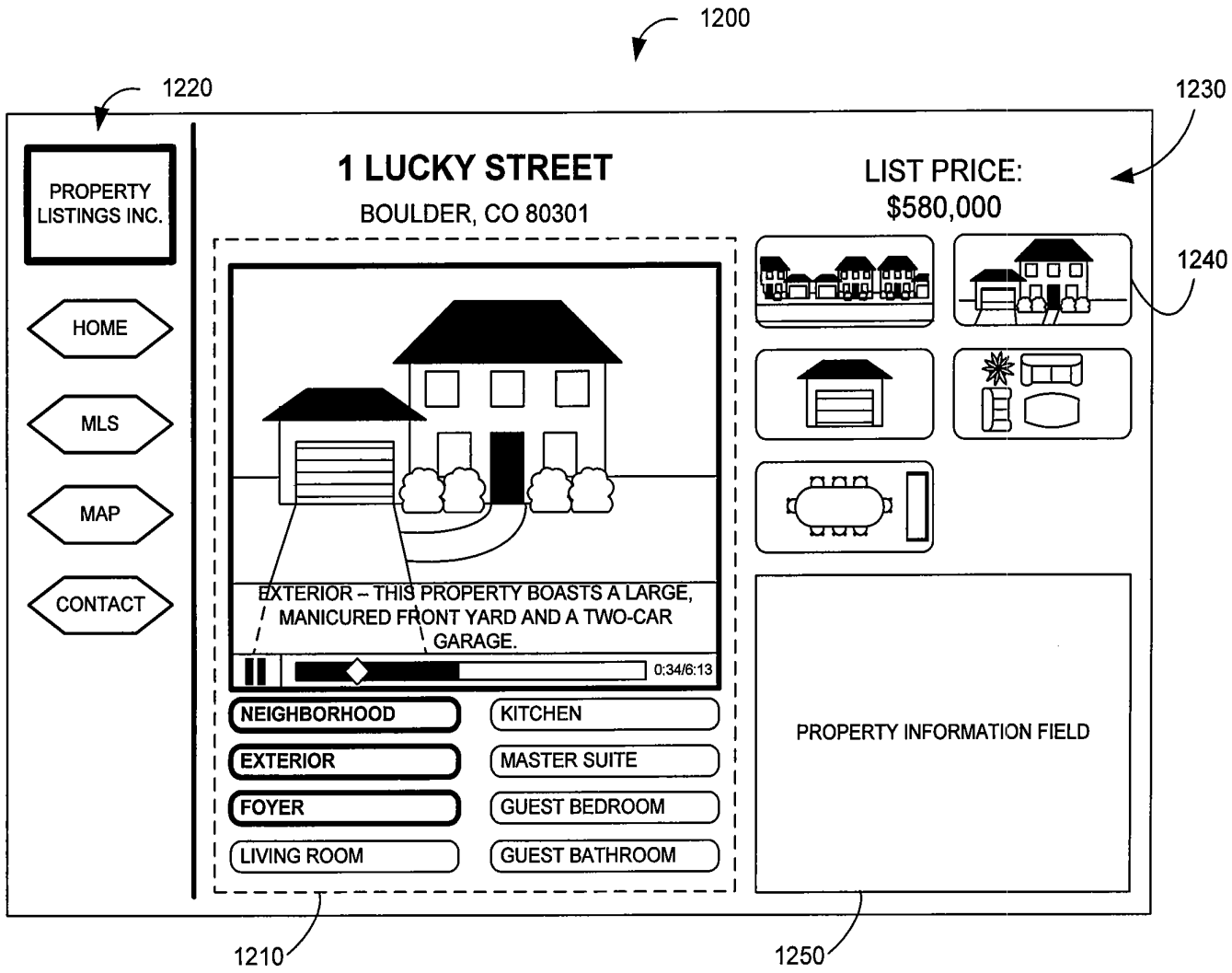

1200
1220
1230
PROPERTY LISTINGS INC.
1 LUCKY STREET
BOULDER, CO 80301
LIST PRICE:
$580,000
1240
HOME
MLS
MAP
CONTACT
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
0:34/6:13
NEIGHBORHOOD
KITCHEN
EXTERIOR
MASTER SUITE
FOYER
GUEST BEDROOM
LIVING ROOM
GUEST BATHROOM
PROPERTY INFORMATION FIELD
1210
1250

Fig. 12

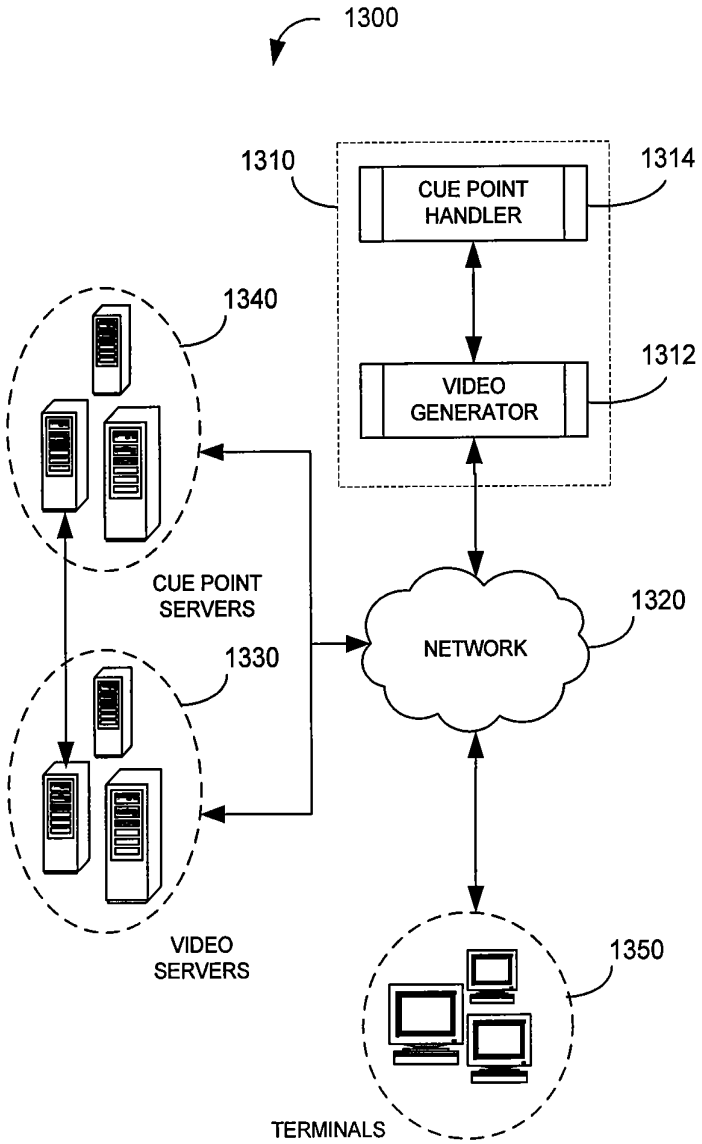


Fig. 13A

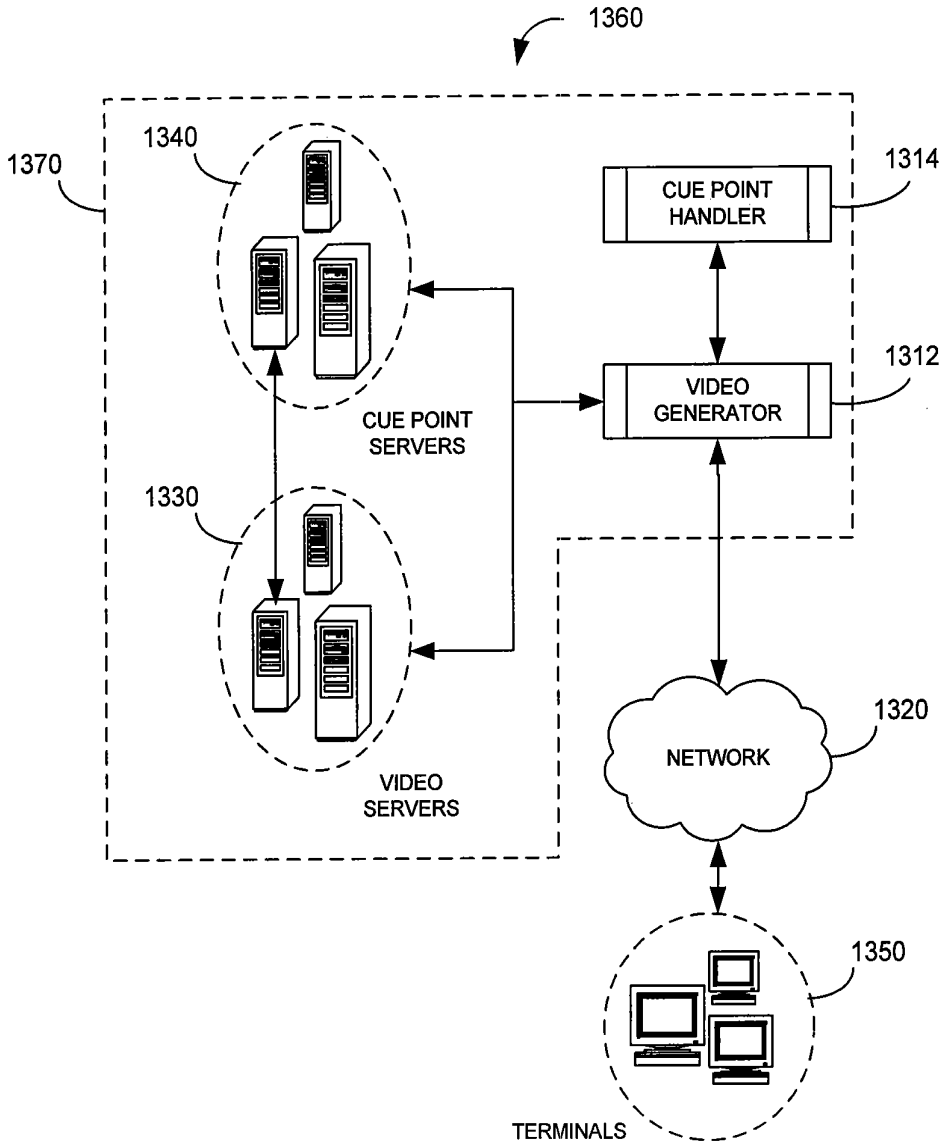


Fig. 13B

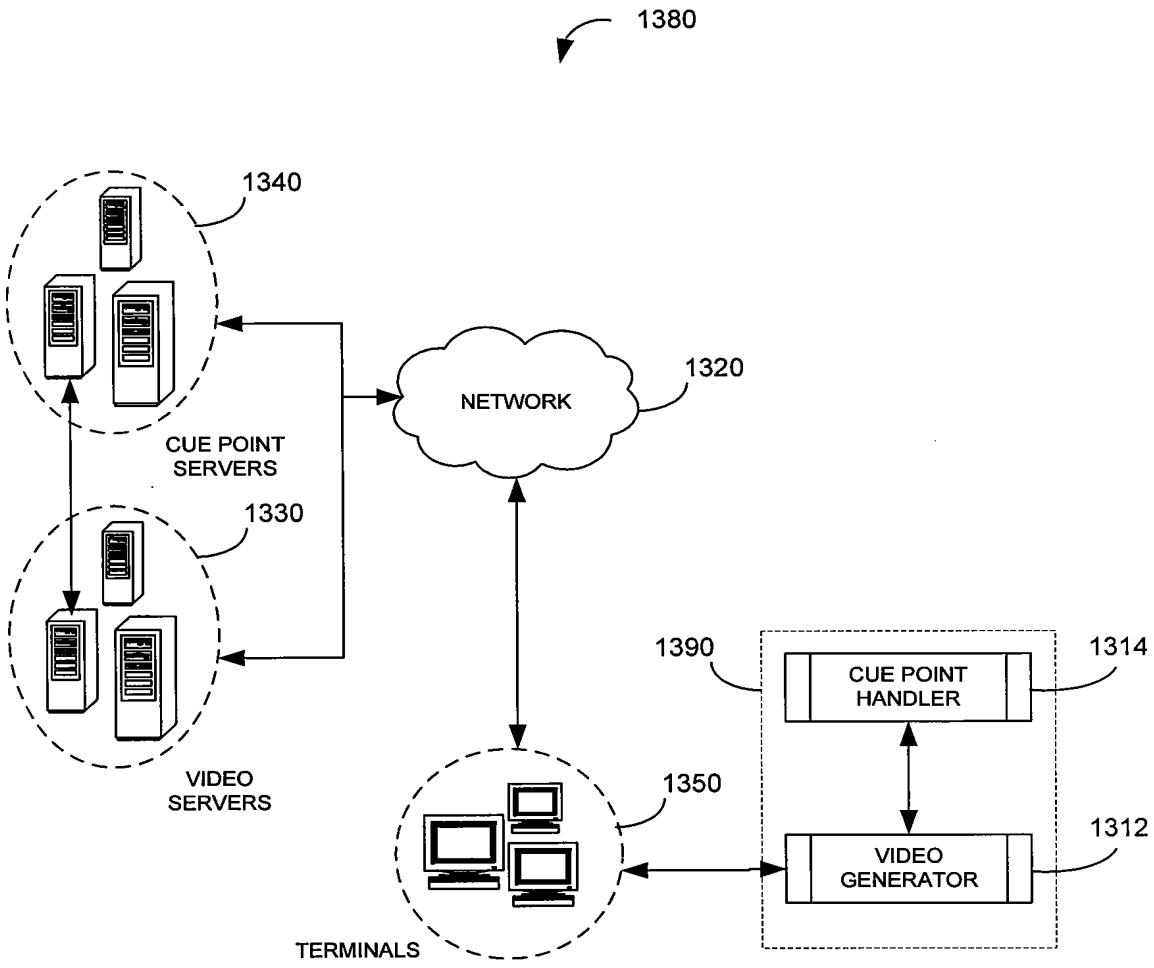

1380
1340
CUE POINT SERVERS
1330
VIDEO SERVERS
NETWORK
1320
1390
CUE POINT HANDLER
1314
1350
VIDEO GENERATOR
1312
TERMINALS

Fig. 13C

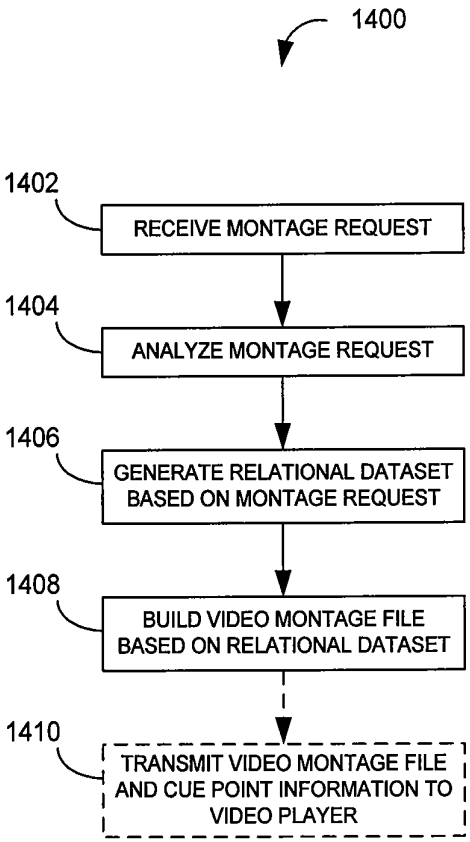

1400
1402
RECEIVE MONTAGE REQUEST
1404
ANALYZE MONTAGE REQUEST
1406
GENERATE RELATIONAL DATASET BASED ON MONTAGE REQUEST
1408
BUILD VIDEO MONTAGE FILE BASED ON RELATIONAL DATASET
1410
TRANSMIT VIDEO MONTAGE FILE AND CUE POINT INFORMATION TO VIDEO PLAYER

Fig. 14

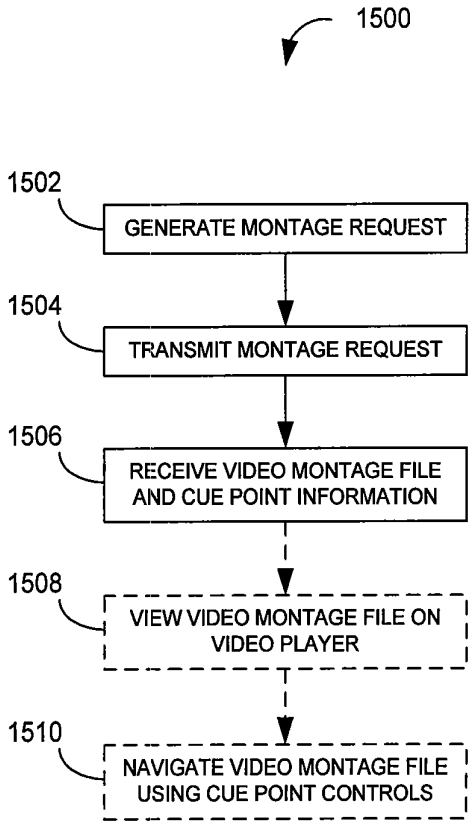

1500
1502
GENERATE MONTAGE REQUEST
1504
TRANSMIT MONTAGE REQUEST
1506
RECEIVE VIDEO MONTAGE FILE AND CUE POINT INFORMATION
1508
VIEW VIDEO MONTAGE FILE ON VIDEO PLAYER
1510
NAVIGATE VIDEO MONTAGE FILE USING CUE POINT CONTROLS

Fig. 15

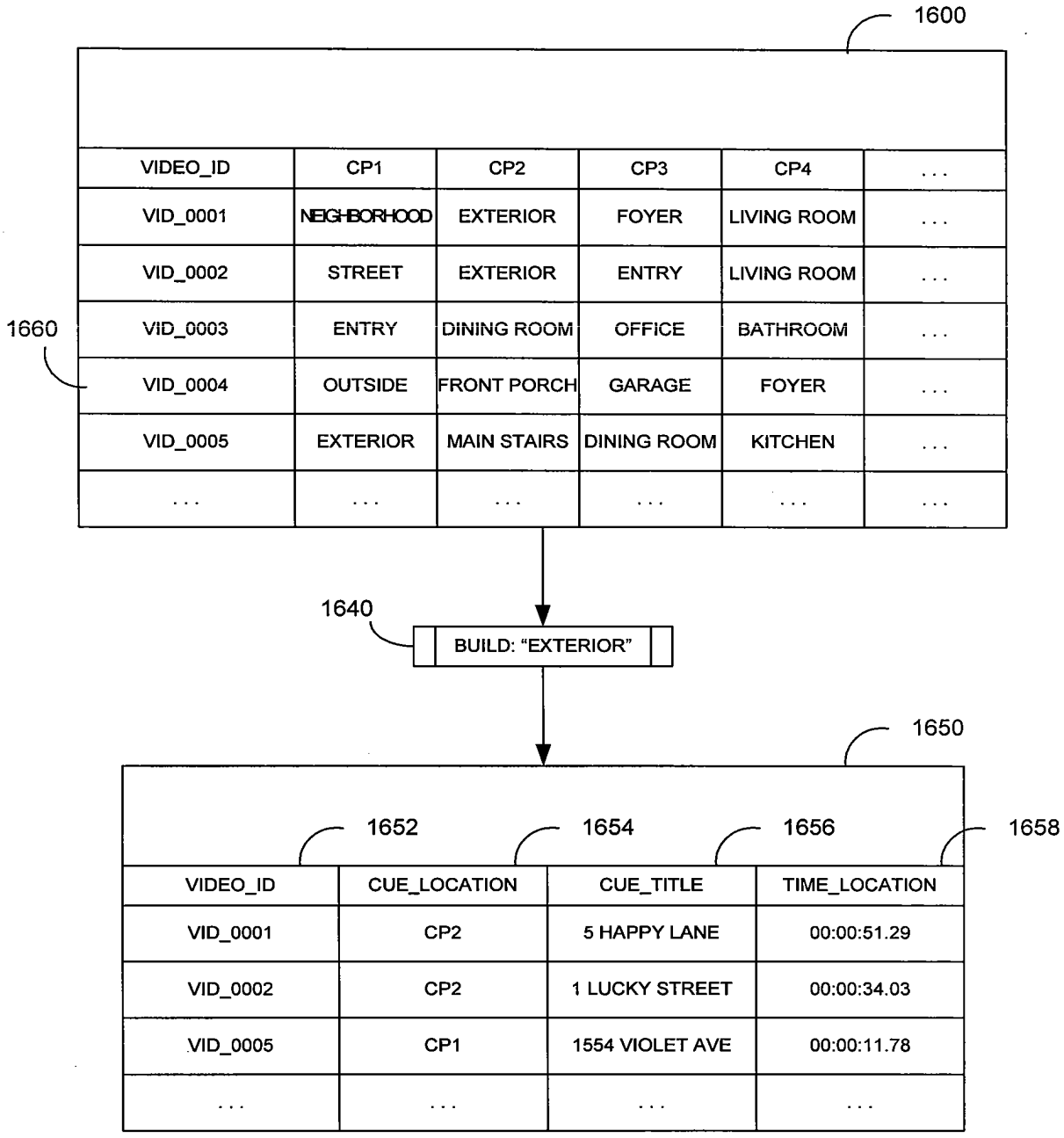

1600
VIDEO_ID
CP1
CP2
CP3
CP4
...
VID_0001
NEIGHBORHOOD
EXTERIOR
FOYER
LIVING ROOM
VID_0002
STREET
EXTERIOR
ENTRY
LIVING ROOM
VID_0003
ENTRY
DINING ROOM
OFFICE
BATHROOM
VID_0004
OUTSIDE
FRONT PORCH
GARAGE
FOYER
VID_0005
EXTERIOR
MAIN STAIRS
DINING ROOM
KITCHEN
1660
1640
BUILD: "EXTERIOR"
1650
1652
1654
1656
1658
VIDEO_ID
CUE_LOCATION
CUE_TITLE
TIME_LOCATION
VID_0001
CP2
5 HAPPY LANE
00:00:51.29
VID_0002
CP2
1 LUCKY STREET
00:00:34.03
VID_0005
CP1
1554 VIOLET AVE
00:00:11.78

Fig. 16

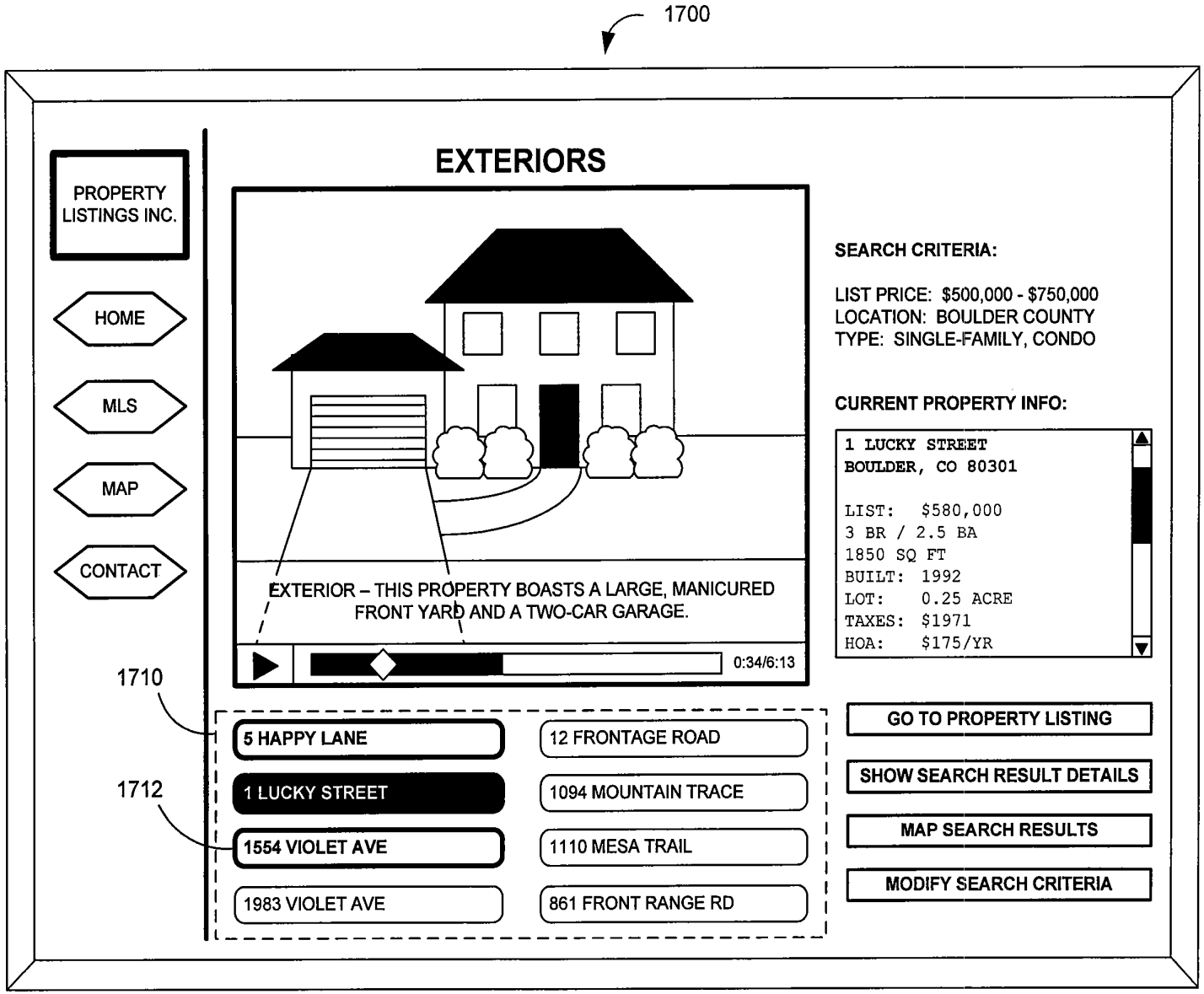

1700
PROPERTY LISTINGS INC.
HOME
MLS
MAP
CONTACT
EXTERIORS
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
0:34/6:13
SEARCH CRITERIA:
LIST PRICE: $500,000 - $750,000
LOCATION: BOULDER COUNTY
TYPE: SINGLE-FAMILY, CONDO
CURRENT PROPERTY INFO:
1 LUCKY STREET
BOULDER, CO 80301
LIST: $580,000
3 BR / 2.5 BA
1850 SQ FT
BUILT: 1992
LOT: 0.25 ACRE
TAXES: $1971
HOA: $175/YR
1710
1712
5 HAPPY LANE
1 LUCKY STREET
1554 VIOLET AVE
1983 VIOLET AVE
12 FRONTAGE ROAD
1094 MOUNTAIN TRACE
1110 MESA TRAIL
861 FRONT RANGE RD
GO TO PROPERTY LISTING
SHOW SEARCH RESULT DETAILS
MAP SEARCH RESULTS
MODIFY SEARCH CRITERIA

Fig.17A

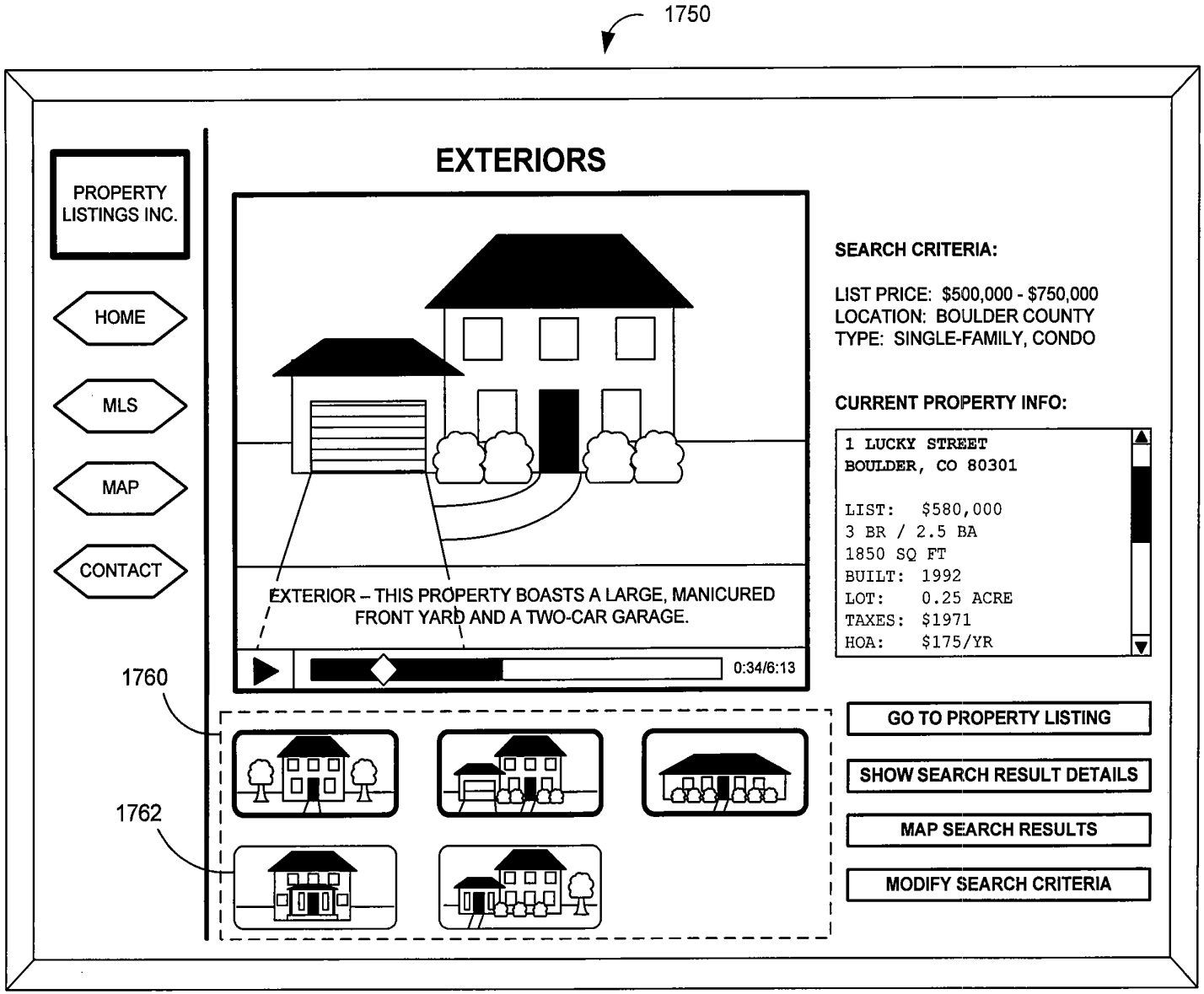

1750
PROPERTY LISTINGS INC.
HOME
MLS
MAP
CONTACT
EXTERIORS
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
0:34/6:13
SEARCH CRITERIA:
LIST PRICE: $500,000 - $750,000
LOCATION: BOULDER COUNTY
TYPE: SINGLE-FAMILY, CONDO
CURRENT PROPERTY INFO:
1 LUCKY STREET
BOULDER, CO 80301
LIST: $580,000
3 BR / 2.5 BA
1850 SQ FT
BUILT: 1992
LOT: 0.25 ACRE
TAXES: $1971
HOA: $175/YR
1760
1762
GO TO PROPERTY LISTING
SHOW SEARCH RESULT DETAILS
MAP SEARCH RESULTS
MODIFY SEARCH CRITERIA

Fig. 17B

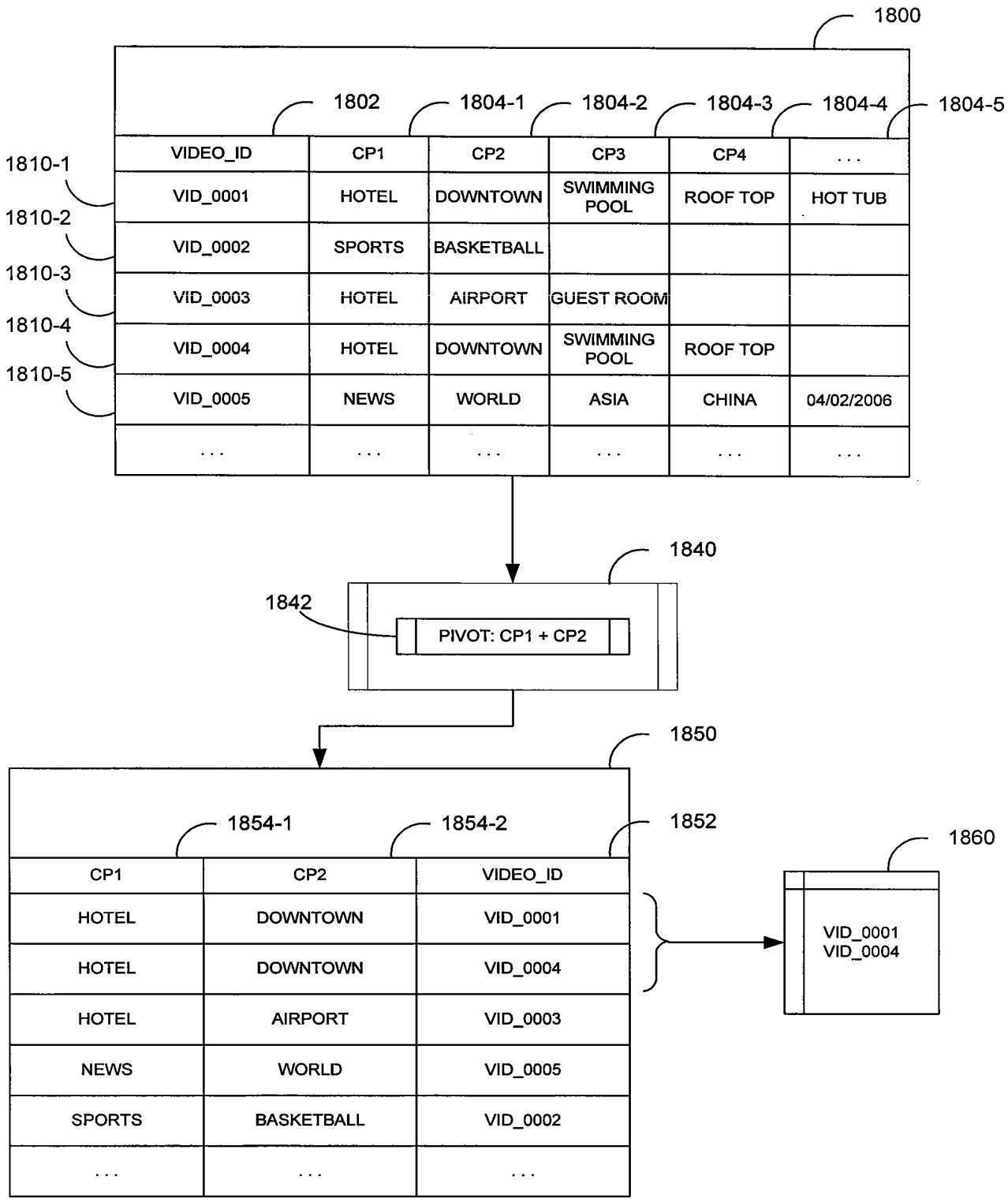

1800
1802
1804-1
1804-2
1804-3
1804-4
1804-5
1810-1
1810-2
1810-3
1810-4
1810-5
VIDEO_ID
CP1
CP2
CP3
CP4
...
VID_0001
HOTEL
DOWNTOWN
SWIMMING POOL
ROOF TOP
HOT TUB
VID_0002
SPORTS
BASKETBALL
VID_0003
HOTEL
AIRPORT
GUEST ROOM
VID_0004
HOTEL
DOWNTOWN
SWIMMING POOL
ROOF TOP
VID_0005
NEWS
WORLD
ASIA
CHINA
04/02/2006
1840
1842
PIVOT: CP1 + CP2
1850
1854-1
1854-2
1852
1860
CP1
CP2
VIDEO_ID
HOTEL
DOWNTOWN
VID_0001
HOTEL
DOWNTOWN
VID_0004
HOTEL
AIRPORT
VID_0003
NEWS
WORLD
VID_0005
SPORTS
BASKETBALL
VID_0002
VID_0001
VID_0004

Fig. 18

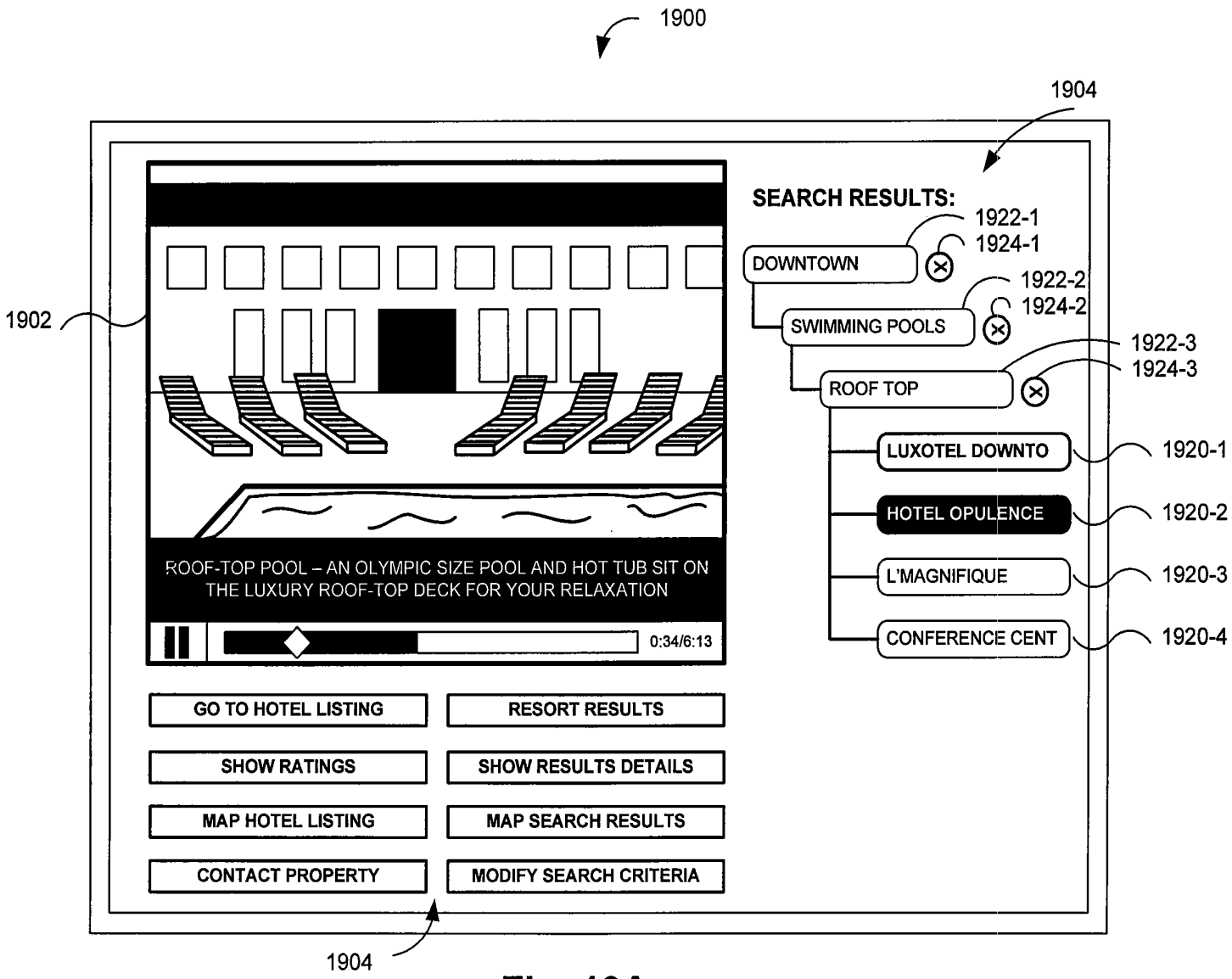

1900
1904
1902
SEARCH RESULTS:
1922-1
1924-1
DOWNTOWN
1922-2
1924-2
SWIMMING POOLS
1922-3
1924-3
ROOF TOP
LUXOTEL DOWNTO
1920-1
HOTEL OPULENCE
1920-2
L'MAGNIFIQUE
1920-3
CONFERENCE CENT
1920-4
ROOF-TOP POOL – AN OLYMPIC SIZE POOL AND HOT TUB SIT ON THE LUXURY ROOF-TOP DECK FOR YOUR RELAXATION
0:34/6:13
GO TO HOTEL LISTING
RESORT RESULTS
SHOW RATINGS
SHOW RESULTS DETAILS
MAP HOTEL LISTING
MAP SEARCH RESULTS
CONTACT PROPERTY
MODIFY SEARCH CRITERIA
1904

Fig. 19A

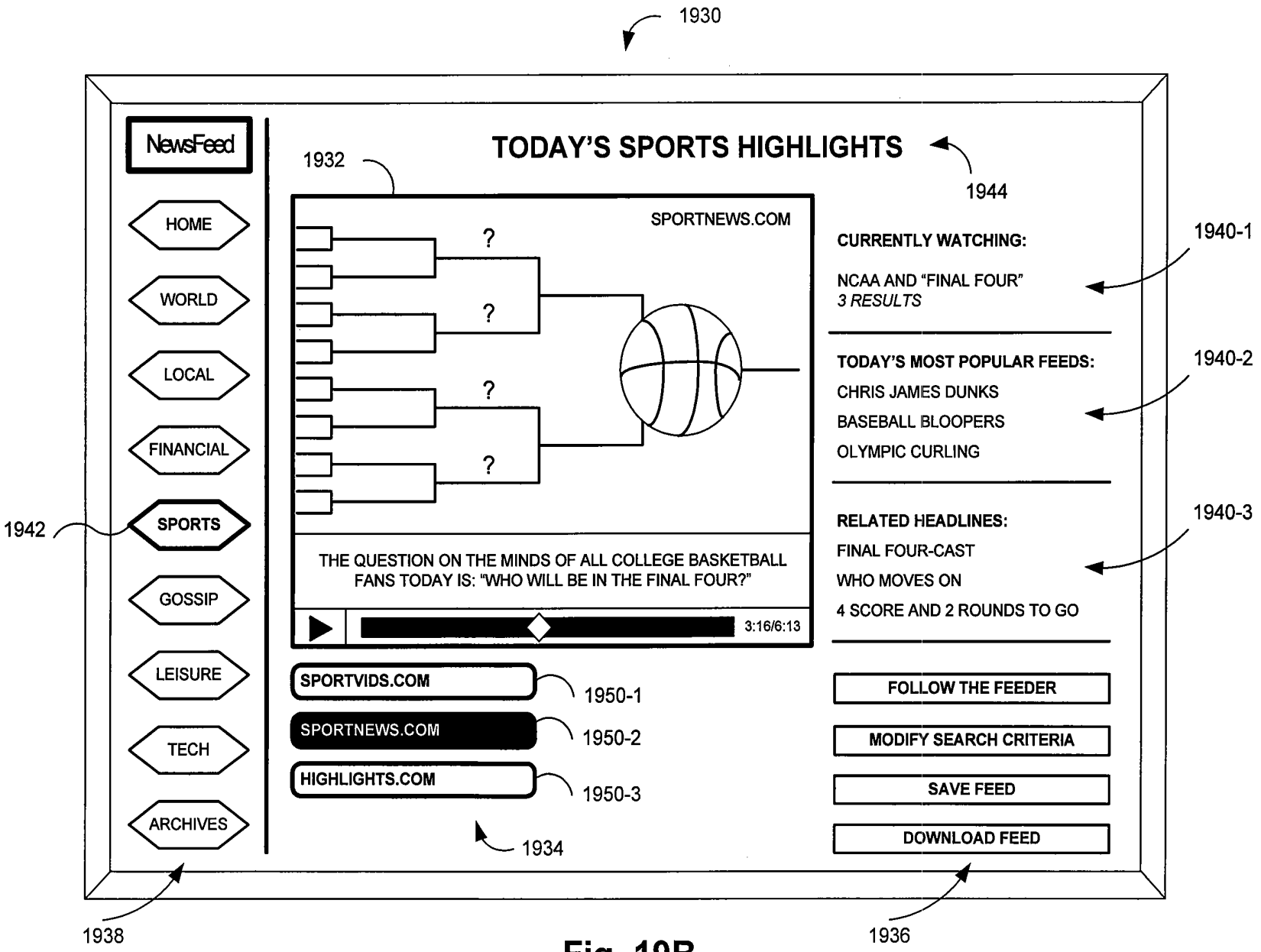

1930
NewsFeed
HOME
WORLD
LOCAL
FINANCIAL
SPORTS
GOSSIP
LEISURE
TECH
ARCHIVES
1942
1932
TODAY'S SPORTS HIGHLIGHTS
1944
SPORTNEWS.COM
?
?
?
?
THE QUESTION ON THE MINDS OF ALL COLLEGE BASKETBALL FANS TODAY IS: "WHO WILL BE IN THE FINAL FOUR?"
3:16/6:13
SPORTVIDS.COM
1950-1
SPORTNEWS.COM
1950-2
HIGHLIGHTS.COM
1950-3
1934
CURRENTLY WATCHING:
NCAA AND "FINAL FOUR"
3 RESULTS
1940-1
TODAY'S MOST POPULAR FEEDS:
CHRIS JAMES DUNKS
BASEBALL BLOOPERS
OLYMPIC CURLING
1940-2
RELATED HEADLINES:
FINAL FOUR-CAST
WHO MOVES ON
4 SCORE AND 2 ROUNDS TO GO
1940-3
FOLLOW THE FEEDER
MODIFY SEARCH CRITERIA
SAVE FEED
DOWNLOAD FEED
1938
1936

Fig. 19B

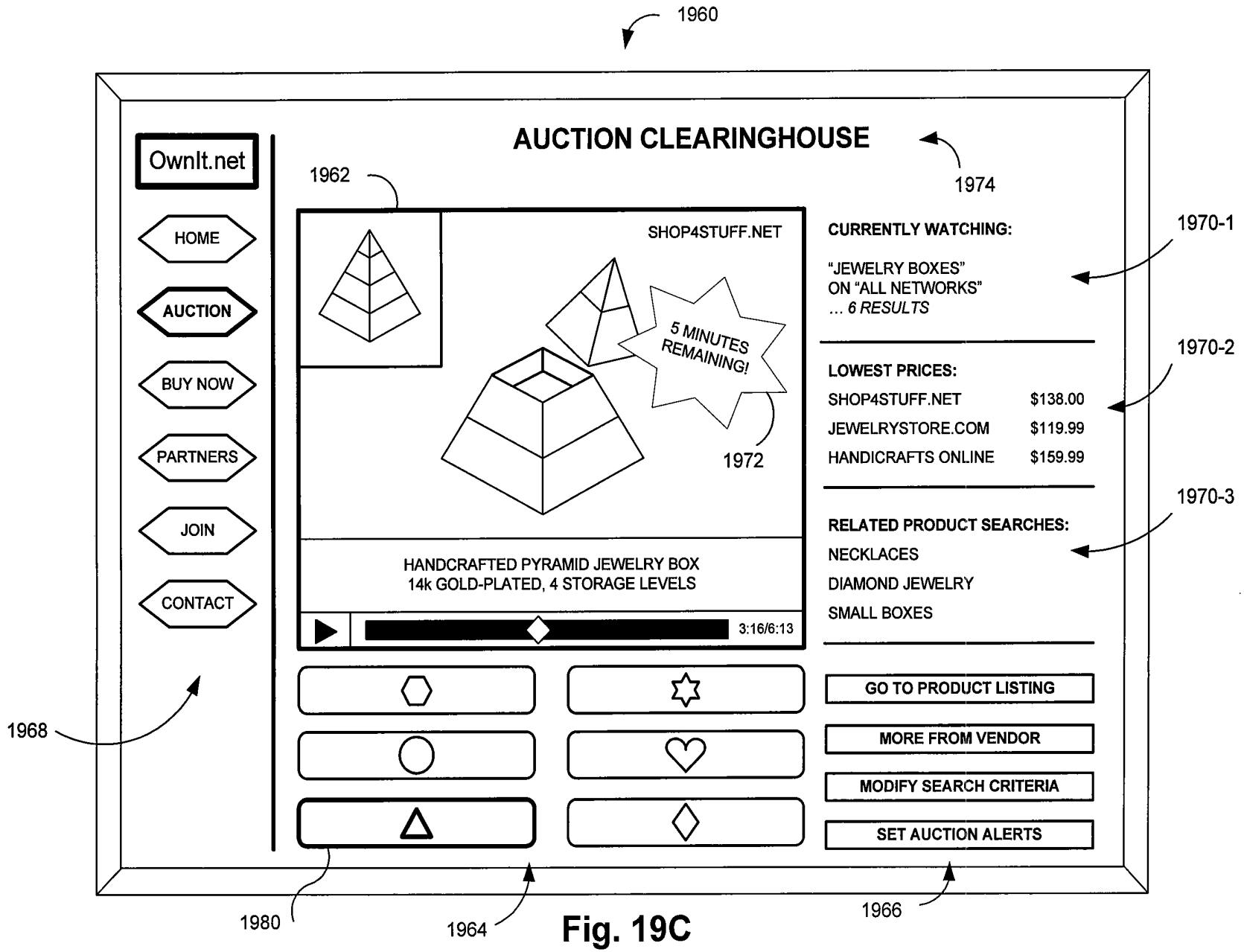

1960
AUCTION CLEARINGHOUSE
1974
OwnIt.net
HOME
AUCTION
BUY NOW
PARTNERS
JOIN
CONTACT
1962
SHOP4STUFF.NET
5 MINUTES REMAINING!
1972
HANDCRAFTED PYRAMID JEWELRY BOX
14k GOLD-PLATED, 4 STORAGE LEVELS
3:16/6:13
CURRENTLY WATCHING:
"JEWELRY BOXES"
ON "ALL NETWORKS"
... 6 RESULTS
1970-1
LOWEST PRICES:
SHOP4STUFF.NET $138.00
JEWELRYSTORE.COM $119.99
HANDICRAFTS ONLINE $159.99
1970-2
RELATED PRODUCT SEARCHES:
NECKLACES
DIAMOND JEWELRY
SMALL BOXES
1970-3
GO TO PRODUCT LISTING
MORE FROM VENDOR
MODIFY SEARCH CRITERIA
SET AUCTION ALERTS
1968
1980
1964
1966

Fig. 19C

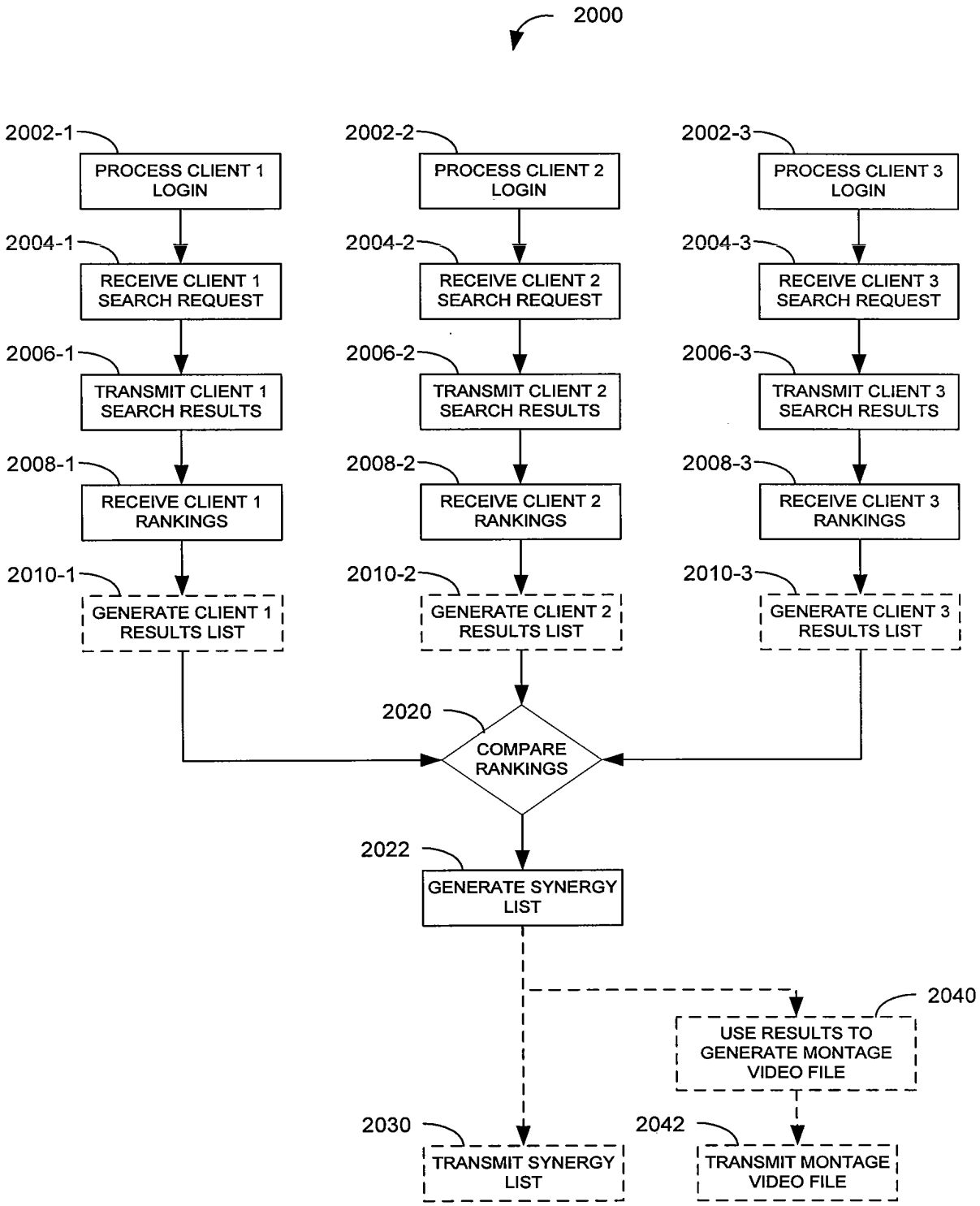

2000
2002-1
PROCESS CLIENT 1 LOGIN
2004-1
RECEIVE CLIENT 1 SEARCH REQUEST
2006-1
TRANSMIT CLIENT 1 SEARCH RESULTS
2008-1
RECEIVE CLIENT 1 RANKINGS
2010-1
GENERATE CLIENT 1 RESULTS LIST
2002-2
PROCESS CLIENT 2 LOGIN
2004-2
RECEIVE CLIENT 2 SEARCH REQUEST
2006-2
TRANSMIT CLIENT 2 SEARCH RESULTS
2008-2
RECEIVE CLIENT 2 RANKINGS
2010-2
GENERATE CLIENT 2 RESULTS LIST
2002-3
PROCESS CLIENT 3 LOGIN
2004-3
RECEIVE CLIENT 3 SEARCH REQUEST
2006-3
TRANSMIT CLIENT 3 SEARCH RESULTS
2008-3
RECEIVE CLIENT 3 RANKINGS
2010-3
GENERATE CLIENT 3 RESULTS LIST
2020
COMPARE RANKINGS
2022
GENERATE SYNERGY LIST
2040
USE RESULTS TO GENERATE MONTAGE VIDEO FILE
2030
TRANSMIT SYNERGY LIST
2042
TRANSMIT MONTAGE VIDEO FILE

Fig. 20

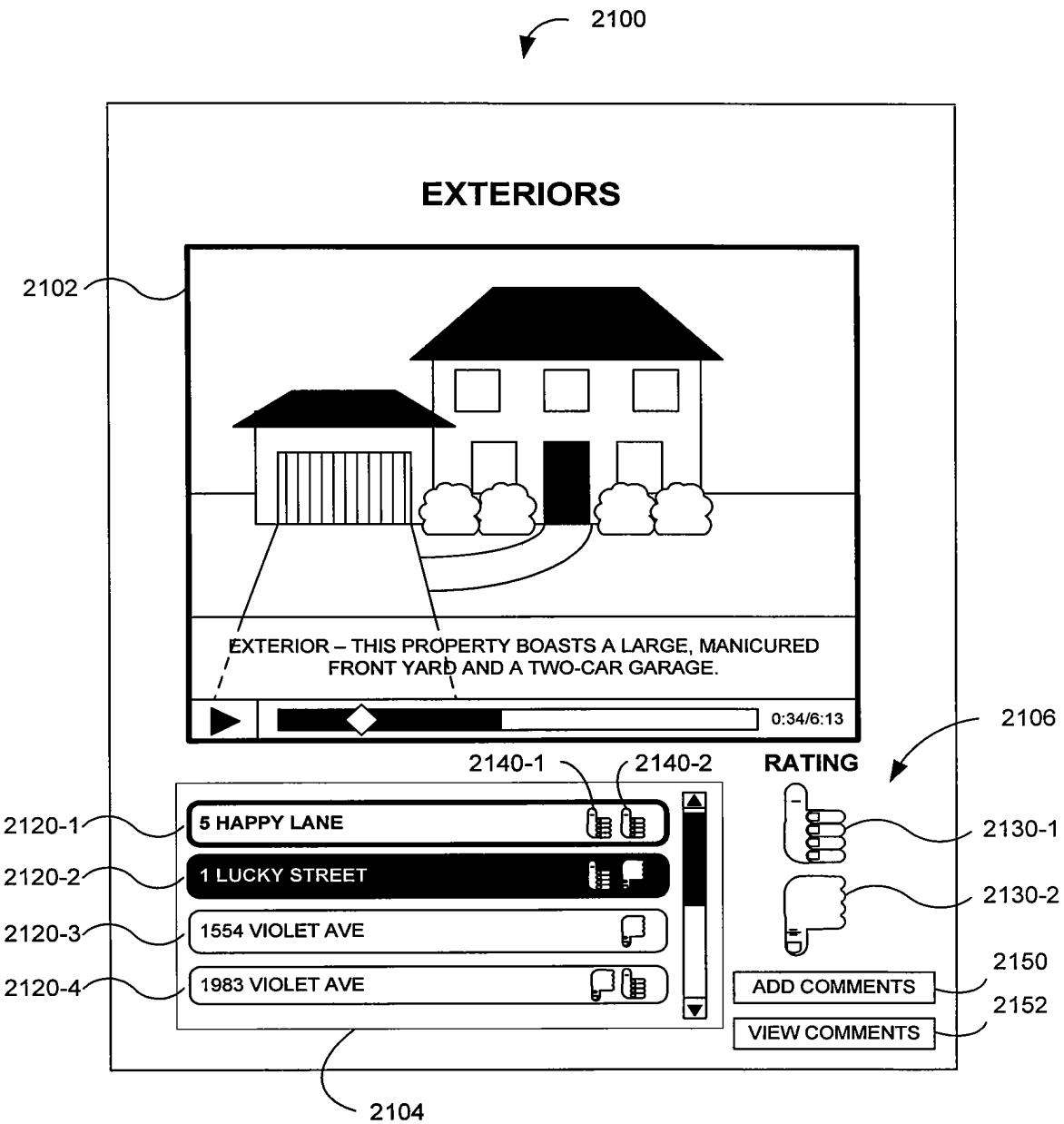

2100
EXTERIORS
2102
EXTERIOR – THIS PROPERTY BOASTS A LARGE, MANICURED FRONT YARD AND A TWO-CAR GARAGE.
0:34/6:13
2106
RATING
2140-1
2140-2
2120-1
5 HAPPY LANE
2120-2
1 LUCKY STREET
2120-3
1554 VIOLET AVE
2120-4
1983 VIOLET AVE
2130-1
2130-2
2150
ADD COMMENTS
2152
VIEW COMMENTS
2104

Fig. 21

Electronic Acknowledgement Receipt

EFS ID:	1747115
Application Number:	11744721
International Application Number:	
Confirmation Number:	9408
Title of Invention:	METHODS AND SYSTEMS FOR ONLINE VIDEO-BASED PROPERTY COMMERCE
First Named Inventor/Applicant Name:	Christian A. Sterner
Customer Number:	20350
Filer:	Darin J. Gibby/Connie Larson
Filer Authorized By:	Darin J. Gibby
Attorney Docket Number:	026819-000110US
Receipt Date:	04-MAY-2007
Filing Date:	
Time Stamp:	18:15:57
Application Type:	Utility

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1		026819_000110_patapp.pdf	5511158	yes	117

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal of New Application	1	1
	Application Data Sheet	2	4
	Miscellaneous Incoming Letter	5	5
	Specification	6	82
	Claims	83	88
	Abstract	89	89
	Drawings	90	117
Warnings:			
Information:			
	Total Files Size (in bytes):	5511158	

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.

5/4/07

PTO/SB/06 (12-04)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PATENT APPLICATION FEE DETERMINATION RECORD
Substitute for Form PTO-875

11/744,721

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))				75			
SEARCH FEE (37 CFR 1.16(k), (i), or (m))				250			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))				100			
TOTAL CLAIMS (37 CFR 1.16(i))	40 minus 20 =	20	X 25=	500		X 50=	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	1	X 100=	100		X 200=	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			N/A			N/A	
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	1025		TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT A		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

AMENDMENT B		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

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

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