PTO/AIA/15 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	10004-2000105
First Named Inventor	Jonathan S. Steuer
Title	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

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

1. [ ] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [✓] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 30] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 7]
6. **Inventor's Oath or Declaration** [*Total Pages* 3] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [ ] Newly executed (original or copy)
   b. [✓] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **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

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. [✓] **37 CFR 3.73(c) Statement** *(when there is an assignee)* [✓] **Power of Attorney**
12. [ ] **English Translation Document** *(if applicable)*
13. [ ] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [✓] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** *(MPEP § 503) (Should be specifically itemized)*
16. [ ] **Certified Copy of Priority Document(s)** *(if foreign priority is claimed)*
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [ ] **Other:** _____

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 must be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[✓] The address associated with Customer Number: 51417 OR [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Lawrence Gabuzda/	Date	October 22, 2019
Name (Print/Type)	Lawrence Gabuzda	Registration No. (Attorney/Agent)	51,711

This collection of information is required by 37 CFR 1.53(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.

Roku EX1002
IPR2024-01057
U.S. Patent No. 10,719,848

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Filer:	Lawrence R. Gabuzda/Emily Sullenberger
Attorney Docket Number:	10004-2000105

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**785**

Electronic Acknowledgement Receipt

EFS ID:	37531059
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Lawrence R. Gabuzda/Emily Sullenberger
Filer Authorized By:	Lawrence R. Gabuzda
Attorney Docket Number:	10004-2000105
Receipt Date:	22-OCT-2019
Filing Date:	
Time Stamp:	18:57:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	$785
RAM confirmation Number	E20190LI57347962
Deposit Account	504242
Authorized User	Emily Sullenberger

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

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

37 CFR 1.19 (Document supply fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	10004-2000105ADS.pdf	1256425 98b7279105c6d96898f308a60324601921d6e8de	no	9
Warnings:					
Information:					
2		10004-2000105Specification.pdf	246841 c6d345c331e4b44979bb13ee809abb43f2c6a538	yes	30

Multipart Description/PDF files in .zip description

Document Description	Start	End
Abstract	30	30
Claims	27	29
Specification	1	26

Warnings:					
Information:					
3	Drawings-only black and white line drawings	10004-2000105Figures.pdf	157617 2c269d41f291ce4f66b04015c8f320f4284e3c66	no	7
Warnings:					
Information:					
4		10004-2000105PreliminaryAmendment.pdf	114476 3b31d2ba1e65ed579fa723bdb51e60af1fb87f76	yes	8

Multipart Description/PDF files in .zip description

Document Description	Start	End
Applicant Arguments/Remarks Made in an Amendment	8	8

	Claims		3	7	
	Specification		2	2	
	Preliminary Amendment		1	1	
Warnings:					
Information:					
5	Oath or Declaration filed	10004-2000104Declarations.pdf	496290 8d45c019f08dddb5f4cb6af43ce18d2c48bae05e	no	3
Warnings:					
Information:					
6	Assignee showing of ownership per 37 CFR 3.73	10004-2000105Statement37CFR373c.pdf	1572441 e039b959f0dae13c17377633777ede9c6ef5420c	no	5
Warnings:					
Information:					
7	Power of Attorney	10004gpoa.pdf	873194 e1e5651d8f15b5f9ec275cd3dc05fe276df21ecb	no	1
Warnings:					
Information:					
8	Transmittal of New Application	10004-2000105apptrans.pdf	901706 e8c64b5a61dd8796331ef8d0898e3cfa6247ce8d	no	1
Warnings:					
Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	35131 d92e692b7103e53ae663431b1603ef45bb7a6f46	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	5654121		

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.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jonathan	S.	Steuer	

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

City	New York	State/Province	NY	Country of Residence i	US

Mailing Address of Inventor:

Address 1	72 East 3rd Street, Apartment 2B
Address 2	
City	New York
State/Province	NY
Postal Code	10003
Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christopher	W.	Otto	

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

City	San Francisco	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	72 East 3rd Street, Apartment 2B
Address 2	
City	New York
State/Province	NY
Postal Code	10003
Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	51417		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD		
Attorney Docket Number	10004-2000105	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	7	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	● Customer Number	US Patent Practitioner	◯ Limited Recognition (37 CFR 11.9)
Customer Number	51417		

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16403204	2019-05-03
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16403204	Division of	14/175811	2014-02-07
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
14/175811	Continuation of	13/914870	2013-06-11
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
13/914870	Continuation of	12/954604	2010-11-24
Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
12/954604	Division of	11/139330	2005-05-26
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11/139330	Claims benefit of provisional	60/574836	2004-05-27
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.			Add

Foreign Priority Information:

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

Applicant Information:

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

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section. Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Anonymous Media Research LLC		
Mailing Address Information For Applicant:			
Address 1	72 East 3rd Street, Apartment 2B		
Address 2			
City	New York	**State/Province**	NY
Country	US	Postal Code	10003
Phone Number		Fax Number	
Email Address			

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

Assignee Information including Non-Applicant Assignee Information:

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

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

Organization Name	Anonymous Media Research LLC

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1	72 East 3rd Street, Apartment 2B		
Address 2			
City	New York	**State/Province**	NY
Country i	US	Postal Code	10003
Phone Number		Fax Number	
Email Address			

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

Signature:

Remove

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

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

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

Signature	/Lawrence Gabuzda/			Date (YYYY-MM-DD)	2019-10-22
First Name	Lawrence	Last Name	Gabuzda	Registration Number	51711

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	10004-2000105
	Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

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

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

ABSTRACT

Media monitoring and measurement systems and methods are disclosed. Some embodiments of the present invention provide a media measurement system and method that utilizes audience data to enhance content identifications. Some embodiments analyze media player log data to enhance content identification. Other embodiments of the present invention analyze sample sequence data to enhance content identifications. Other embodiments analyze sequence data to enhance content identification and/or to establish channel identification. Yet other embodiments provide a system and method in which sample construction and selection parameters are adjusted based upon identification results. Yet other embodiments provide a method in which play-altering activity of an audience member is deduced from content offset values of identifications corresponding to captured samples. Yet other embodiments provide a monitoring and measurement system in which a media monitoring device is adapted to receive a wireless or non-wireless audio signal from a media player, the audio signal also being received wirelessly by headphones of a user of the monitoring device.

CLAIMS

What is claimed is:

1. A media measurement method comprising:

using one or more computers to generate a play stream of content identification results corresponding to a sequence of submitted data samples, the submitted data samples corresponding to video data samples captured at a monitoring device associated with a monitored audience member; and

using one or more computers to utilize sample sequence data and content offset data to deduce play-altering actions of the monitored audience member, the sample sequence data corresponding to a sequence of the content identification results.

2. The method of claim 1, wherein

the content offset data including content offsets associated with the content identification results, a content offset indicating a time position of a content identification result within identified content, wherein to utilize comprises, for a particular plurality of submitted data samples and corresponding content identification results, comparing a progression of log times associated with capture timing of each of the particular plurality of submitted data samples and a progression of content offsets of the corresponding content identification results.

3. The method of claim 2 further comprising:

generating a play list including content offset data as part of deducing media play-altering actions of a monitored audience member.

4. The method of claim 2 further comprising:

utilizing sample sequence data together with corresponding channel data to deduce play-altering actions of a monitored audience member.

5. The media measurement method of claim 2 wherein a clean play list is generated including deduced play-altering actions.

6. The media measurement method of claim 2 wherein the play stream is a raw play stream.

7. The media measurement method of claim 2 wherein the play stream is a clean play stream.

8. The method of claim 2 wherein to utilize further comprises determining if one or more discontinuities exist in the progression of content offsets.

9. The method of claim 2 wherein the content offset data is derived from a comparison conducted by a computerized content identification system comparing the submitted data samples against known content such that content offset data is obtainable without using time codes accompanying the captured video data samples.

10. A media measurement method comprising:

using one or more computers to generate a play stream of content identification results corresponding to a sequence of submitted data samples, the

submitted data samples corresponding to video data samples captured at a monitoring device associated with a monitored audience member; and

using one or more computers to utilize sample sequence data and content offset data to deduce play-altering actions of the monitored audience member, the sample sequence data corresponding to a sequence of the content identification results, wherein play-altering actions include actions that alter at least one of a pace and a sequence of a media stream, the content offset data including content offsets associated with the content identification results, a content offset indicating a time position of a content identification result within identified content, wherein to utilize comprises, for a particular plurality of submitted data samples and corresponding content identification results, comparing a progression of log times associated with capture timing of each of the particular plurality of submitted data samples and a progression of content offsets of the corresponding content identification results.

11. The method of claim 10 wherein play-altering actions include at least one of fast forwarding, rewinding, and pausing a media stream.

12. The method of claim 10 wherein play-altering actions include at least one of skipping forward and skipping backward in a media stream.

MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

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CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This is a divisional of U.S. Patent Application No. 14/175,811, filed February 7, 2014, which is a continuation of U.S. Patent Application No. 13/914,870, filed June 11, 2013, which is a continuation of U.S. Patent Application No. 12/954,604, filed November 24, 2010, which is a divisional of U.S. Patent Application No. 11/139,330, filed May 26, 2005, which claims priority to U.S. Provisional Patent Application No. 60/574,836, entitled, "Open-ended device-independent media usage monitoring and measurement system," filed May 27, 2004. The contents of these applications is incorporated herein by reference.

BACKGROUND

[0002] Traditional media measurement systems have focused on directly monitoring channels being utilized by audience members. However, as media consumption patterns have become more complex, channel-centric media measurement is inadequate for many purposes. It may be desirable to track usage of particular media content independent of channel. Furthermore, although "channel" identification in a traditional media measurement system may sometimes be limited to radio or television broadcast station, it is increasingly desirable to track usage of media across several types of media delivery vehicles including radio, television, CD, DVD, computer download, portable media players (e.g. MP3 players, iPod), and other vehicles. Furthermore, with respect to tracking consumption of advertisements, it may be inadequate to simply track channel tuning, because, for example, an audience

member may mute a broadcast during commercial periods. Thus simply identifying a broadcast channel does not adequately track whether the audience member listened to a particular advertisement.

[0003] Some media measurement systems have used codes to "tag" and track particular content. However, such systems are limited in that they can only track content that has been properly encoded.

[0004] With the development of more robust content recognition technologies, some content recognition systems have recently been deployed which do not rely on codes. For example, Philips, Shazam Entertainment, and others have marketed systems for identifying songs played into a mobile phone. Although such systems can be efficiently deployed in the context of song recognition, deploying such systems in the context of media measurement systems poses particular challenges. Continuous searching against a large database of media content can be computationally intensive. Furthermore, such systems, while increasingly robust, still return some erroneous results, particularly in high-noise environments.

[0005] At the same time, the media measurement context provides opportunities to utilize data exogenous to a particular audio or video data sample. Such opportunities have thus far been insufficiently exploited for the purpose of efficiently applying existing content recognition technologies in the media measurement context. Thus, an improved media measurement system and method is needed.

SUMMARY

[0006] Some embodiments of the present invention provide a media measurement system and method that enhances recognition (e.g. in terms of accuracy or efficiency) of the content of a media sample by analyzing information exogenous to the sample. Some embodiments of the present invention provide a

media measurement system and method that utilizes audience data to enhance content identifications. Some embodiments analyze media player log data to enhance content identification. Other embodiments of the present invention analyze sample sequence data to enhance content identifications. Other embodiments analyze sequence data to enhance content identification and/or to establish channel identification. Yet other embodiments provide a system and method in which sample construction and selection parameters are adjusted based upon identification results. Yet other embodiments provide a method in which play-altering activity of an audience member is deduced from content offset values of identifications corresponding to captured samples. Yet other embodiments provide a monitoring and measurement system in which a media monitoring device is adapted to receive a wireless or non-wireless audio signal from a media player, the audio signal also being received wirelessly by headphones of a user of the monitoring device.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The novel features of the invention are set forth in the appended claims. However, for purpose of explanation, several aspects of particular embodiments of the invention are described by reference to the following figures.

[0008] **Figure 1** illustrates an exemplary media usage monitoring and measurement system in accordance with aspects of an embodiment of the present invention.

[0009] **Figure 2** illustrates a media measurement method in accordance with aspects of an embodiment of the present invention.

[0010] **Figure 3** illustrates a process for using and generating information such as that illustrated in **Figure 4** and **Figure 5** and **Figure 3** illustrates an embodiment consistent with aspects of the present invention.

[0011] **Figure 4** illustrates a raw play stream generated by a process such as step 207 of **Figure 2**; a clean play stream and clean play list generated by a scrubbing step such as step 209 of **Figure 2** or steps 301, 302, or 305 of **Figure 3**; and channel data associated with two channels.

[0012] **Figure 5** illustrates a clean play stream, clean play list, channel data, and a clean play list showing deduced play-altering actions. The illustrated data may be generated by systems and methods in accordance with an embodiment of the present invention such as, for example, system 100 of **Figure 1** method 200 of **Figure 2**, and method 300 of **Figure 3**.

[0013] **Figure 6** illustrates timeline structure for data samples generated by system and methods such as module 121 of **Figure 1** and steps 201 and 206 of **Figure 2**.

[0014] **Figure 7** shows an example of a computer system that may be used to execute instruction code contained in a computer program product, the computer program product being in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION

[0015] The following description is presented to enable any person skilled in the art to make and use the invention, and is provided in the context of particular applications and their requirements. Various modifications to the exemplary embodiments will be readily apparent to those skilled in the art, and the generic principles defined herein may be applied to other embodiments and applications without departing from the spirit and scope of the invention. Thus, the present invention is not intended to be limited to the embodiments shown, but is to be accorded the widest scope consistent with the principles and features disclosed herein.

[0016] **Figure 1** illustrates an exemplary media usage monitoring and measurement system 1000. System 1000 includes media measurement system 100 and monitoring devices 101 in accordance with aspects of an embodiment of the present invention.

[0017] As illustrated, monitoring device 101a includes a microphone 105, a media player port 102, a headphone port 103, and a data upload port 104. A monitored audience member wears monitor 101a during a monitoring period. When the audience member is consuming media from media player 170a without the use of headphones 160a (i.e. if media player 170a has a speaker), monitor 101 captures audio energy acoustically through microphone 105. However, when the audience member desires to use headphones 160a to receive media content from media player 170a (e.g. an MP3 player, iPod, CD player, DVD player, television, radio, computer, or other media player) he or she can plug headphones 160a into headphone port 103 and plug media player 170a into media player port 102. In that case, monitor 101a captures audio energy through media player port 102. Microphone 105 includes a microphone and associated microphone port. However, in alternatives, a monitor may simply have a microphone port into which a microphone may be plugged or linked via wireless connection. Thus the term "microphone port" will herein refer to any electronics capable of receiving energy captured through a microphone, whether or not a microphone is built into the monitoring device itself.

[0018] As another example, headphones 160b are adapted to receive a content signal 171 via wireless transmission 171 from media player 170b. Monitor 101b is adapted to receive the same content signal 171 from media player 170b. In some embodiments, a syncing process allows monitor 101b to adapt along with headphones 160b and media player 170b to changes in signal 171 so that monitor 101b continues to receive the same signal as headphones 160b. In some embodiments, syncing may be accomplished via a wireless and/or automatic

process, such as providing a monitor that responsively changes tuning based on tuning changes between the media player and the headphones.

[0019] Audio data captured by monitors 101, along with associated monitor data (e.g. device ID) (collectively, "audio data /monitor data" 144) may be uploaded to system 100 through upload port 104, directly, via memory device transfer (e.g. flash memory card, floppy disk, CD, etc.) or through a network such as network 150. The audio data uploaded from a monitor 101 may be raw audio data, or may be audio data that has undergone one of a variety of levels of processing prior to upload. For example, the uploaded audio data may include parameters useable to calculate audio signatures (sometimes referred to as audio fingerprints) and landmarks or other values useful in the content recognition process. Alternatively, the audio data may comprise pre-calculated signatures, landmarks, or other data useful for content recognition. On the other hand, in some embodiments, the uploaded audio data may simply represent a raw signal corresponding to audio energy received at monitor 101.

[0020] System 100 is adapted to receive some audience data 143 externally. For example, audience data collected by systems and associated monitors other than those of system 1000 may be utilized by system 100; data based on externally collected and/or externally analyzed demographic, psychographic, or other audience related data might also be received as part of external audience data portion 143. Other audience data may be generated internally by audience data processing module 123 alone or in combination with measurement analysis module 129 and/or other system components.

[0021] Also, system 100 is adapted to receive media player log data 146. Media player log data 146 may be generated by a media player such as media player 170a or 170b and sent to system 100 through direct connection, memory device transfer or via network 150. Also, a third party might collect such log data which then may be made available through direct connection, memory

device transfer, or via network 150. Media player log data 146 includes data logging content played on the media player from which the log data was generated. Although log data 146 does not necessarily reflect what content was actually heard, to the extent the media player generating the log data is used primarily by the audience member associated with the corresponding monitor 101, it can provide a useful basis for initial testing of captured content as will be described further below.

[0022] System 100 is also adapted to receive known content 141 and content meta data 142. Content 141 may include media files associated with a known piece of media content (e.g. a song, movie, commercial, television show, video game, etc.). However, it will be understood by those skilled in the art that "content" in the sense of the known content 141 received by system 100 may, in some embodiments, simply refer to data about signals representing the content and does not necessarily refer to a stored version of the media content itself; e.g. "content" may be stored signatures and landmarks derivable from a song's audio, but not necessarily an audio file useable to play the song itself. On the other hand, in other embodiments, a system such as system 100 may be adapted to receive a useable audio file and then derive data from that file such as signatures, fingerprints, landmarks, etc. that may be readily searched during the content recognition process. Content meta data 142 includes various data relating to content 141. For example, a portion of content 141 might include a particular song as recorded by a particular artist. Corresponding content meta data 142 for that song might include the various albums or other collections in which that song appears; various radio broadcasts (including station and broadcast times) playing the song; movies, advertisements or video games including the song; other songs that have sampled the song; and various other related information. In the context of a television program, meta data also might include, for example, segment identifications and corresponding time lengths. By distinguishing content data from content meta data in this manner,

it is possible to store content data for a single content ID only once, and then add various pieces of meta data as appropriate. For example, a TV program, or program segment, might initially have meta data relating to particular broadcasts. However, at a later date, meta data might be added relating to, for example, a DVD version of the program, without needing to store the program content itself more than once.

[0023] Turning to the details of system 100, audio data and monitor data (e.g. device ID) is received at sample control processing module 121. Module 121 provides monitor data, portions of which might be audience data, to processing module 123. Module 121 also divides the audio data into samples and determines which samples should be submitted for further content recognition testing. In alternative embodiments, the audio data may already have been divided into samples prior to receipt by system 100 (e.g. at monitor 101). In such alternatives, a module such as module 121 might either use the provided divisions or combine the data and then re-divide it into samples as determined by the system. Module 121 may be used either to submit a sample to initial test and filtered search module 122 or to content recognition system 124.

[0024] Initial test and filtered search module 122 conducts one or more initial identification attempts. Several different types of initial identification attempts might be performed. Module 122 may test a captured sample against content associated with the most recently identified content. As another possible initial test, module 122 may test the sample against content identified from a media player log file. Another initial identification test may be carried out in a variety of ways. For example, filtered search module 122 might use audience data from audience data processing module 123 to form parameters and then pass those parameters to content recognition system 124 which then uses the parameters to conduct a filtered search of its content. Alternatively, module 122 might be adapted to utilize an instance of content recognition system 124 that includes content pre-selected based upon relevant audience data. Some examples of

relevant audience data that may be used either to form search parameters or to construct targeted content include:

- age, gender, and other demographic information about the audience member (using the corresponding monitoring device) along with media consumption patterns of other persons sharing similar demographic characteristics
- media consumption patterns of the audience member based on questionnaire input or based on past content identifications associated with that audience member
- media consumption patterns of other audience members who have consumed other media content that has also previously been consumed by the audience member using the corresponding monitoring device
- location of the audience member (alone and/or relative to other audience members)

Of course, the above are just some examples of audience data that may be utilized by system 100.

[0025] After completing the initial identification attempt, filtered search module 122 passes the identification result to ID result module 125. If an identification has been made, the result is passed to play stream generator 126 and to sample control processing module 121. If no identification has been made, then content recognition system 124 performs a search using a larger portion of its content to identify the data sample. The result is passed to ID result module 125 which in turn passes the result to play stream generator 126 and to sample control module 121. Content recognition system 124 is adapted to implement one or more known content recognition methods that identify content by extracting parameters from a media signal and applying an algorithm to those parameters to search for a content match. Those skilled in the art will

recognize that many such methods and algorithms exist. One such example is described in U.S. patent application 09/839,476 entitled "System and Methods for Recognizing Sound and Music Signals in High Noise and Distortion" by Wang et al. and published June 27, 2002 with publication number US2002/0083060. Aspects of other such examples are described in the following published PCT applications by Koninklijke Philips Electronics N.V.: "Fingerprinting Multimedia Contents" (WO2004/044820, published May 27, 2004), "Fingerprint Extraction" (WO2004/030341 published April 8, 2004), and "Improvements in and Relating to Fingerprint Searching" (WO2004/040475 published May 13, 2004). Such distinct methods and algorithms may have varying degrees of efficiency, accuracy, and applicability to certain types of content (or different settings of a particular algorithm might have different efficiency depending on content type). Thus, in some embodiments, a system such as system 100 may intelligently select among multiple such algorithms (or multiple settings of a single algorithm) based on expected content characteristics. For example, algorithm A might be faster and more accurate at identifying silence than algorithm B, and thus a system such as system 100 of **Figure 1** having a corresponding subsystem for content recognition (such as system 124) might achieve enhanced performance by submitting a sample for processing by algorithm A rather than algorithm B if recent identification results indicate silence. Other differences corresponding to content types (e.g. speaking audio versus music audio) might also be exploited based on prior content identification results to select a most efficient recognition algorithm from a plurality of algorithms. In such an alternative, if the algorithms required different audio data parameters, a monitor might send two sets of parameters for each sample corresponding to each algorithm and then the system would select between the two sets as needed. Alternatively, the two sets of parameters might be calculated by the system based on raw audio data received from a monitoring device.

[0026] Play stream generator 126 generates a raw play stream relating a sequence of samples to content identification results (for an example of a portion of a raw play stream, see **Figure 3** and accompanying text). The raw play stream is then processed by play stream scrubber 127 which analyzes the sequence of sample identification results utilizing sequence data processing module 128. Based on analysis of sequence data and, where appropriate, analysis of audience data via interaction with audience data module 123, play stream scrubber 127 generates a clean play stream and clean play list (see **Figure 3** and accompanying text) which can then be used by measurement analysis module 129. Results of the media measurement analysis can be obtained via report generator 130.

[0027] In alternative embodiments, many of the system components and corresponding functions performed within a system such as system 100 might instead be implemented on the monitoring devices such as monitoring device 101. For example, many of the functions performed by sample control processing module 121 might instead be performed at a monitoring device. To cite but one example in more detail, if a monitoring device maintains an ongoing reciprocal connection to obtain sample identification results of a media measurement system, then the monitoring device can select which samples to send to the system for recognition analysis. The monitoring device might then also adjust parameters such as sample resolution, the length of a sample time window, and the recognition algorithm selected. This is just one example of how the illustrated embodiment might be modified to shift system components from a central system to a monitoring device. Many other such variations will be apparent to those skilled in the art.

[0028] Also, it will be understood that although **Figure 1** illustrates a particular exemplary division and relationship between "modules," the division illustrated may be readily modified without departing from the spirit and scope of the present invention. For example, in various implementations, the

illustrated modules may be combined into larger modules or the functions performed may be distributed across several modules. The term "module" and the associated illustrated division of system components is chosen for purposes of ease of description only and does not limit how particular systems consistent with the present invention might be constructed.

[0029] **Figure 2** illustrates a media measurement method 200 in accordance with aspects of an embodiment of the present invention. One or more elements of method 200 may be carried out, for example, by system 100 of **Figure 1** or other similar systems. At step 201, method 200 receives audio data from a monitoring device. Step 201 caches a series of samples and determines the sample resolution with which samples are submitted for content identification. In particular, as described further below (see **Figure 4** and accompanying text), sample resolution refers to how many samples in a given sequence of samples are processed for content identification. Step 201 also determines length, or "time window" of each sample.

[0030] At step 210, characteristics of the audio data are analyzed to attempt to identify the source of transmission or storage of the media played by an individual based on audio characteristics of that signal. For example, the process attempts to recognize particular types of encoding or compression, or identifies sound associated with screen refresh on a television or computer monitor, or recognizes compression or frequency range of FM or AM radio, or CD or DVD. If the storage or transmission medium is identified, the results of step 210 can be added to a play list and / or utilized in step 211 to identify channel (see below for further description of step 211).

[0031] At step 202, identification of a sample in a series of samples is attempted via initial test methods. In particular, step 202 determines whether the audio data in the tested sample matches data associated with the content ID corresponding to the most recently identified sample. Step 202 may also or

instead test the sample against content IDs obtained using data from a media player log file associated with the audience member using the corresponding media monitor. Step 203 determines whether successful identification occurred at step 202. If yes, then the identification result is provided to step 206 and 207. If no, then step 204 searches for a content match against targeted content selected based at least in part upon additional audience data. Step 205 determines whether step 204 obtained an identification. If yes, then the identification result is provided to steps 206 and 207. If no, then step 208 searches for a content match against a larger portion of the content. With respect to steps 202, 204, and 208, there are two possible results: an identification has been made or no identification has been made. No identification at steps 202 and 204 leads to the further identification attempt at step 208. Whatever the result is at step 208 (identification or no identification) that result is passed to steps 207 and 206.

[0032] At step 206, an identification result is used to adjust sampling control and selection parameters for one or more subsequent samples. Parameters that might be adjusted include resolution, backtrack selection, sample time window, or recognition algorithm selected. For example, if a sample has been identified successfully, and the identification indicates a match with the prior sample, the sampling resolution might be decreased from 1/5 to 1/10, meaning that, in a sequence of samples, nine samples rather than four are skipped before selecting the next sample to analyze for identification. As another example, if an identification result does not match the result of the prior sample identified, then step 206 might initiate a back track analysis and select an intervening sample that has not yet been analyzed. Step 201 would then pass the sample selected from backtracking to step 202 for attempted identification. As another example, resolution might be increased when recent identification results suggest an extended period of silence or absence of known content.

[0033] As yet another example, once media content for a limited series of samples has been identified, the time window size for each sample might be decreased from, for example, 5 seconds to 3 seconds. This would mean that samples submitted for attempted identification would be shorter in length. This can create efficiencies because once the content is identified, the process needs only to detect a change in content, and this can, in some cases, be accomplished utilizing a smaller amount of audio data, thereby preserving system resources.

[0034] Adjustment of sampling parameters is described further below in the context of **Figure 5** and accompanying text.

[0035] Continuing with the description of **Figure 2**, step 207 generates a raw play stream indicating a series of samples and corresponding identification results. Step 209 scrubs the raw play stream based upon sample sequence data (described further below in the context of **Figures 3-4** and accompanying text) and based upon audience data. The resulting clean play stream may be converted to a play list listing the content captured and indicating the order in which it was captured. Step 209 attempts to identify the channel by searching known channel data to find an apparent content sequence match to the play list. If the storage or transmission medium of the captured sample has been identified at step 210, that information may be made available for step 211 and allows step 211 to use that information to filter its search of channel data (e.g., only search channel data including CD channels, or only including radio broadcast channels, etc.). If step 211 successfully identifies the channel, information such as content sequence data for the identified channel may be used by step 212 to further scrub or rescrub the play stream, particularly with respect to any apparently incorrect content identifications that could not be corrected based upon sample sequence data as utilized in step 209.

[0036] **Figure 3** illustrates a process 300 for using and generating information such as that illustrated in **Figure 4** and **Figure 5**. Some of the

functions accomplished by process 300 are similar to functions accomplished by steps 207, 209, 211, and 212 of **Figure 2**. Process 300 illustrates a more detailed example of an embodiment consistent with aspects of the present invention.

[0037] Referring to process 300, depending on available information, either a play stream is made available to step 301 or a play list is made available to step 302. Step 301 prepares a play stream for further processing necessary for channel matching by scrubbing (i.e. reviewing for missing or incorrect data) the play stream using non-channel data. Step 302 prepares a play list for further processing necessary for channel matching by scrubbing (i.e. reviewing for missing or incorrect data) the play list using non-channel data. With respect to steps 301 and 302, the non-channel data selected might be selected particularly for the purpose of better preparing the play stream or play list for a channel matching process. Step 303 receives either a raw (i.e. " not scrubbed") play stream or play list directly or receives a scrubbed play stream or play list from step 301 or 302. If necessary, step 303 converts received data to a format useful in matching to a channel (e.g. converts a play stream to a play list where a play list format is useful for channel matching, or converts a play stream or play list to a mathematical representation that is useful for channel matching).

[0038] Step 304 attempts to match the play stream or play list (or corresponding data format representing the play stream or play list) against known channel data to identify a channel (e.g., an album, samples of an album presented for marketing—e.g. on a web page—, radio broadcast, television broadcast, theater version of a movie, DVD version of a movie, etc.) associated with the elements of the play list or play stream. Step 306 determines whether a channel match was achieved. If yes, then step 305 uses channel data and non-channel data to scrub or further scrub the play stream or play list for purposes of creating a clean play list. If the play list or play stream has already been scrubbed with non-channel data in either step 301 and 302, then the play stream

or play list may not need to be further scrubbed with non-channel data at step 305. In that case, step 305 just uses channel data to further scrub the play stream or play list. However, it is possible that scrubbing the play list or play stream with non-channel data for purposes of creating data useful for channel matching will be somewhat different than doing so for purposes of creating a clean play list, thus non-channel data is referenced again in the illustration of claim 305.

[0039] If step 306 determines that a channel match was not achieved at step 304, then step 307 scrubs the play stream or play list with non-channel data to create a clean play list. Step 309 determines whether including deduced user actions on the clean play list is desired. If yes, then step 308 creates a clean play list including deduced user actions. If no, then step 310 creates the clean play list without including deduced user actions.

[0040] **Figure 4** illustrates Raw Play Stream 410 generated by a process such as step 207 of **Figure 2**; Clean Play Stream 450 and Clean Play List 490 generated by a scrubbing step such as step 209 of **Figure 2** or steps 301, 302, or 305 of **Figure 3**; Channel Data 470 and Channel Data 490. Referring to **Figure 4**, Raw Play Stream 410 itemizes a sequence of analyzed samples and relates that sequence to corresponding identification results in the content ID column. The content ID result indicates either a reference corresponding to a particular piece of content or indicates that no identification was made. The example in **Figure 4** assumes that no user play-altering activities took place and this example does not rely on content offset data in scrubbing the raw play stream to obtain a clean play list. However, note that in other examples, such as that of **Figure 5**, sample sequence data ("ssd") includes content offset data. For purposes of presenting and analyzing sample sequence data as described herein, the times in list 410 may be relative to an arbitrary value (e.g. "t_0") rather than representing an absolute time; however, in many instances, a log time will in fact indicate the actual time the sample started to be captured.

[0041] Sample sequence data may be used to "scrub" Raw Play Stream 410. By analyzing the sequence of data on Raw Play Stream, it is possible to locate and correct any identifications that are likely to be incorrect or to supply missing identifications where the system has not otherwise been able to provide an identification.

[0042] Sample sequence data can be used to derive portions of Clean Play Stream 450 from raw play list 410 in the following manner: Referring to Raw Play Stream 410, the content IDs associated with samples 1, 3, 4, 6, and 7 all indicate the same media content referenced as "song51." The content ID value associate with sample 2 indicates that no content has yet been successfully associated with that sample and the content ID value associated with sample 5 indicates "movie81." Given this pattern of sample sequence data, it is reasonable to assume that the person using the corresponding monitor listened to song51 through the time period associated with the audio data of samples 1-7, and thus, the "scrubbed" version of the play stream, i.e. Clean Play Stream 450, indicates song51 for each of samples 1-7.

[0043] Information about the sequence of content in a play stream can be used to generate a play list and identify a channel, and the identified channel data can also potentially be used to help further "scrub" a play stream. For example, the sequence of consumed content represented on Play Stream 450 is searched against known channel data (e.g. particular CD albums, broadcasts, or other particular storage or transmission media carrying a particular sequence of content). In this example, simplified for illustrative purposes, known channel data includes channel data 470, associated with channel ID "radio 35," and channel data 480, associated with channel ID "album12." Referring to channel data 470, each row relates a content ID to a start time and end time. In this example, start and end times are referenced with respect to an arbitrary start time value "C(0)." For some channels (e.g. CDs, DVDs, video games) only such arbitrary reference times will be available. For other channels (e.g. broadcasts,

concerts, etc.), absolute time might be both available and useful. However, for the purpose of the analysis illustrated in this example, times that are relative only and not necessarily absolute are sufficient.

[0044] With respect to further "scrubbing" the Raw Play Stream 410, in this example, channel data may be used to correct the apparent misidentification of sample 29. Note that the sample sequence data alone in this example does not provide a clear basis for correcting sample 29. Sample 28 is identified as "ad49," sample 29 as "song81," and sample 30 as "song 35." However, given the sequence "song21, ad49, and song35" is associated with a known sequence of the radio broadcast referenced as "radio 35," there is a basis in channel data 470 for believing that the proper content ID for sample 29 is "song35" rather than "song81." Thus, Clean Play Stream 450 indicates a change relative to Raw Play Stream 410 with respect to the content ID for sample 29. Note that a clean play stream and clean play list are not necessarily generated sequentially. For example, to the extent a channel identification and associated channel data are necessary to "scrub" a raw play stream, portions of a clean play list may be determined as part of obtaining data necessary to make channel selection. In the present example, "radio 35" is identified based on a particular content sequence, and that information helps populate Clean Play Stream 450 with a corrected content ID value for sample 29 relative to the sample 29 content ID value on Raw Play Stream 410.

[0045] Audience data may also be used in the "scrubbing" process. For example, if "song81" is radically different from the user's known consumption habits and "song35" is within the user's known consumption habits, another basis might be provided for suspecting that "song35" rather than "song81" is the correct content ID for sample 29 of Play Stream 410.

[0046] It will be understood by those skilled in the art that in the context of data sets that might, in alternative examples, make up a "raw play stream," "a

clean play stream," or a "clean play list," the particular organization, division, and content of the data may vary considerably from that illustrated in **Figure 4** (as well as that illustrated in **Figure 5** below) without departing from the spirit and scope of the present invention. To cite but one example, such play streams and/or play lists might include several data fields in addition to those illustrated. Moreover, the illustrated data sets might not be collected in the same table but, depending upon database architecture, might be spread out in different tables and/or relational structures. Furthermore, the data sets similar to those illustrated might not be stored at all in a database but rather might be generated on the fly and then discarded as mere intermediate steps to generating a particular report that the system is asked to produce. These and other variations will be readily apparent to those skilled in the art. The examples shown are chosen primarily for usefulness in illustrating aspects of a particular embodiment. While they are useful in illustrating certain underlying principles of certain aspects of the present invention, they should not be considered, in and of themselves, to limit the scope of the invention.

[0047] **Figure 5** illustrates Clean Play Stream 510, Clean Play List 560, Channel Data 570, and Clean Play List 590 showing deduced play-altering actions. The illustrated data may be generated by systems and methods in accordance with an embodiment of the present invention such as, for example, system 100 of **Figure 1** method 200 of **Figure 2**, and method 300 of **Figure 3**. Aside from the traditional time shifting activity of, for example, recording a television broadcast and playing it at a later time, various play-altering activities may be undertaken by an audience member. For example a media player may be paused, reversed, fast forwarded, and some media players have modes in which skipping back or forward in played content can occur almost instantly, including within the smallest time division useful for a particular data set (e.g., less than five seconds, less than one second, etc.). Generally, these activities of manipulating the pace and order in which media is consumed will be

referenced as audience play-altering actions or activities. These activities may be deduced, for example, during scrubbing step 209 of **Figure 2**, or, as illustrated more expressly, during step 308 of **Figure 3**.

[0048] Continuing with the description of **Figure 5**, Play Stream 510 presents a series of log times, content IDs, and content offsets. In the illustrated example, times given in the log time column begins with t_0 and ends with t_0+19. Each log time indicates a time at which capture of the analyzed sample began, where t_0 simply represents a beginning time for samples on Play Stream 510. Each content ID indicates an identifier of the content that has been identified as corresponding to the captured sample. In the example illustrated, "TV program 27" refers to a TV program segment and "TV program 28" refers to another program segment of the same program. "Ad23" and "ad25," on the other hand, refer to separate advertisements. Each content offset value represents a time offset from the beginning of a particular piece of content. For example, row 8 of Play Stream 510 corresponds to a sample whose beginning is located 9 time units from the beginning of TV program 27, thus the content offset is referenced as (0)+9.

[0049] Play List 560 contains a row for each internally continuous media consumption event. The start log time and end log time for each such event are listed in each row. If an entire piece of content (e.g. a TV program segment, or an entire TV ad) is listened to without interruption, that would correspond to a row of Play List 560. On the other hand, if the data from Play Stream 510 suggests a discontinuity within consumption of a particular piece of content, such discontinuities form boundaries between consumption events that form rows of List 560. The meaning of these concepts may be clarified by discussing further details of the illustrated example.

[0050] Discontinuities in consumption of the identified media may be identified by comparing the progression of sample log times to progression of

corresponding content offset times in Play Stream 510. For example, referring to rows 7 and 8 of play stream 510, log times progress from t_0+6 to t_0+7; however, the corresponding content offsets progress, with respect to the start of TV program 27, from (0)+3 to (0)+9. Had the media consumption from one sample to the next been continuous, one would expect that the second offset value (in row 8) would have been (0)+4 rather than (0)+9. Therefore, a boundary between media consumption events can be deduced. Thus, rows 3 and 4 of List 560 indicate two consumption events with respect to the same piece of media content (TV program 27). By contrast, row 1 and row 2 of Play Stream 510 are, on Play List 560, collapsed into a single row (row 1) because the content offset progression from row 1 to row 2 of Play Stream 510 suggests continuous consumption of the same piece of media content.

[0051] Referring to Play List 560, the "end log time" of one event also defines the "start log time" of the next event. In other examples, particularly if continuous time is not assumed, a play list might be constructed using start log times that are different than the end log time of the previous consumption event.

[0052] Referring to Clean Play List With Deduced Actions 590, it can be seen that a play list can be constructed that supplements the information in Play List 560 with information about the apparent actions of the audience member. Rows 2, 4, 6, 8, and 11 of List 590 include such information about deduced actions.

[0053] To the extent such play-altering actions occur within the same piece of content, audience member actions may be deduced without content sequence data for a particular channel. For example, referring to rows 2, 3, 4, 5, and 6, of Play Stream 510, the content offset values of rows 2 and 6 indicate advancing for one time unit within TV program 27 while no content ID (or corresponding offset value) is available for rows 3-5. From this information, and the fact that log times of rows 3-5 together correspond to progression through three time units, it is reasonable to deduce that the audience member paused a media player for

three time units from log time t_0+2 to log time t_0+5. That deduced action is recorded in row 2 of Play List 590.

[0054] On the other hand, in other contexts, it may be necessary to refer to content sequence data for a particular channel to be sufficiently confident in deducing the details of an audience member's play-altering activity. For example, referring to Play Stream 510, data in rows 15-17 indicate one or more consumption discontinuities in which a play-altering action appears to have crossed a content boundary. Row 15 indicates consumption of the beginning of ad23; row 16 indicates no identified content, and row 17 indicates consumption of ad24 from a point two time units after the beginning of that ad. From this information alone, it is difficult or impossible to determine how much play-altering activity occurred and whether any content pieces were skipped altogether. However, content sequence data for an identified channel may be used to supplement the information gap. Data 570 lists content sequence data for a channel identified as "TV C4." "TV C4" may be identified during a method portion such as step 211 of process 200 of **Figure 2** as previously described. Channel data may be searched that includes the content identified in Play Stream 510 or Play List 560. A channel whose content sequence matches or closely matches content on such a stream or play list may be identified as the channel that delivered the consumed content. In this case, Play Stream 510 and Play List 560 include content associated with the following IDs: TV program 27, ad23, ad25, and TV program 28. Because channel data for "TV C4" indicates a sequence of: TV program 27, ad23, ad24, ad25, and TV program 28, for purposes of this example, it can reasonably be assumed that the media depicted on Stream 510, List 560, and List 590 was originally delivered to the relevant media player by channel "TV C4." In real world contexts, however, it is quite possible that more data would have to be obtained (e.g. a matching more entries on a play list entries against a longer series of content sequence data of a channel) in order to be reasonably confident that the channel has been correctly

identified. The amount of data matched in the illustrated example has been chosen primarily for ease of illustration.

[0055] Sequence Data 570 for channel TV C4 indicates that ad23 as broadcast lasted three time units (see row 2), ad25 as broadcast lasted three time units (see row 4), and between ad23 and ad25, another ad, ad24, was broadcast and lasted three time units. From this information, and the information in either Play Stream 510 or Play list 560, it can be deduced that the audience member heard the very beginning of ad23, but then fast forwarded seven time units (during the span of 1 time unit based on the log time data) to just past the beginning of ad25. This deduced action is recorded in row 11 of List 590.

[0056] It should be noted that, to the extent actions take less than a single time unit, rows may be added to List 590 relative to List 560 to record such actions. For example, referring to row 4 of List 590, because no log time elapsed between the end of the event in row 3 and the beginning of the event in row 5, row 4 has been added showing the "skip forward 5 units." That the user "skipped" forward rather than "fast" forwarded can be deduced from the fact that while there is no content ID gap between rows 3 and 4 of List 560, there is a gap in the content offset times for those rows. Thus, though the log times and content ID alone suggest continuous consumption, the gap in offset times suggests a "skip" forward that took the same or less time than the length of a single time unit.

[0057] Those skilled in the art will recognize that the method aspects just described in the context of generating and using Stream 510, List 560, Data 570, and List With Deduced Actions 590 reflect just one example of how play-altering actions might be deduced using systems and methods consistent with those of the present invention. To cite but one example, rather than explicitly generate a play list, mathematical representations of play stream data and content sequence data may be used to identify discontinuities and deduce play-altering

activities. To cite but one other example, play-altering might be deduced from a pre-generated play list including content offset data without needing to analyzing play stream data from which the play list was generated.

[0058] **Figure 6** illustrates timeline structure for data samples generated by system and methods such as module 121 of **Figure 1** and steps 201 and 206 of **Figure 2**.

[0059] As illustrated, sample set 600 reflects a division of audio data into sixteen samples, three of which are selected for analysis. The samples selected for recognition analysis are referenced generally as the "n_0^{th}," n_1^{th}," and "n_2^{th}" samples. Samples between the selected samples are not separately numbered, but are marked off between vertical lines along the horizontal length of timelines structure 600 as illustrated. Each sample has a sample time window length "i." Furthermore, the sample set has varying "resolutions" including r_0=1/5 between the n_0^{th} and n_1^{th} samples and r_1=1/10 between the n_1^{th} and the n_2^{th} samples. In other words, "resolution" here refers to the portion of samples being selected during a period of time. In the present example, a process portion such as steps 201 and 206 of process 200 of **Figure 2** has, based on the identification results of the n_0^{th} and n_1^{th} samples, adjusted the resolution from 1/5 to 1/10. This could occur, for example, as previously described, because the n_0^{th} and n_1^{th} samples match the same content ID and process 200 determines that the likelihood that the next selected sample using a resolution of 1/5 would also match justifies decreasing the resolution to 1/10 so that the next sample selected for analysis is the n_2^{th}. However, if the n_2^{th} sample does not match the n_1^{th} sample, then process 200 can make a backtrack decision and go back in the series of samples to select, for example, the $(n_1 +6)^{th}$ sample for content recognition analysis in order to pinpoint more closely where in the play stream the content change occurred. The order in which samples are selected for analysis in this example is illustrated by arrows 1, 2, and 3 in **Figure 6**.

[0060] Although not illustrated in **Figure 6**, as previously described, steps 201 and 206 of method 200 can also determine based on identification results the time window length can be adjusted. In the context of **Figure 6**, this would correspond to changing the value of "i," the time window length of a particular sample.

[0061] In alternative embodiments to what is illustrated and described in FIGs. 1-6, a record is created of individual media usage over time by means of an open-ended measurement system that employs portable and stationary detection devices to generate digital fingerprints of the video signal portion of the media content itself and identifies media played in the environment by means of matching such fingerprints against a database of known media. Such a video-based system may be built upon direct electrical connections and optical sensors (rather than microphones). Thus, various alternatives to the exemplary methods discussed in the context of the audio data-based embodiments illustrated in FIGs. 1-6 rely instead on video data.

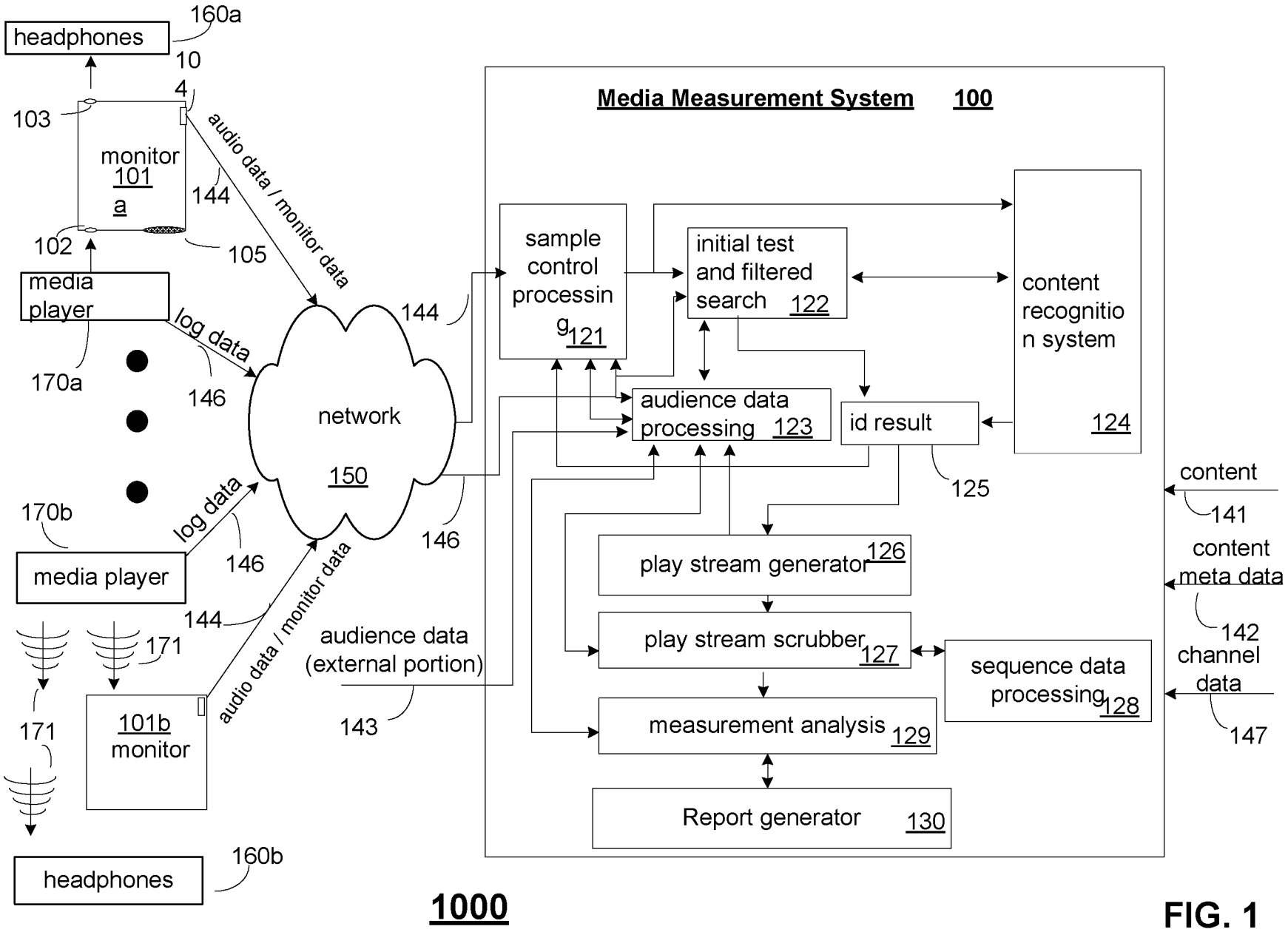
[0062] **Figure 7** shows an example of a computer system 700 that may be used to execute instruction code contained in a computer program product 760 in accordance with an embodiment of the present invention. Computer program product 760 comprises executable code in an electronically readable medium that may instruct one or more computers such as computer system 700 to perform processing that implements the system 100 of **Figure 1** and/or accomplishes the exemplary method 200 of **Figure 2**. The electronically readable medium may be any medium that either stores or carries electronic signals (including signals referred to as electrical signals and signals referred to as electromagnetic signals) and may be accessed locally or remotely, for example via a network connection. The executable instruction code in an electronically readable medium directs the illustrated computer system 700 to carry out various exemplary tasks described herein. The executable code for directing the carrying out of tasks described herein would be typically realized in software.

However, it will be appreciated by those skilled in the art, that computers might utilize code realized in hardware to perform many or all of the identified tasks without departing from the present invention. Those skilled in the art will understand that many variations on executable code may be found that implement exemplary methods within the spirit and the scope of the present invention.

[0063] The code or a copy of the code contained in computer program product 760 may be stored in memory 710 for execution by processor 720. Computer system 700 also includes I/O subsystem 730 and peripheral devices 740. I/O subsystem 730, peripheral devices 740, processor 720, and memory 710 are coupled via bus 750.

[0064] Those skilled in the art will appreciate computer system 700 illustrates just one example of a system in which a computer program product in accordance with an embodiment of the present invention may be implemented. To cite but one example of an alternative embodiment, execution of instructions contained in a computer program product in accordance with an embodiment of the present invention may be distributed over multiple computers, such as, for example, over the computers of a distributed computing network.

[0065] Although particular embodiments have been described in detail and certain variants have been noted, various other modifications to the embodiments described herein may be made without departing from the spirit and scope of the present invention. Thus, the invention is limited only by the appended claims.


headphones
160a
10
4
103
monitor
101
a
144
102
105
audio data / monitor data
media
player
log data
170a
146
144
network
150
146
170b
log data
146
media player
144
audio data / monitor data
171
171
101b
monitor
headphones
160b
audio data
(external portion)
143
Media Measurement System 100
sample
control
processin
g 121
initial test
and filtered
search 122
content
recognitio
n system
124
audience data
processing 123
id result
125
play stream generator 126
play stream scrubber 127
sequence data
processing 128
measurement analysis 129
Report generator 130
content
141
content
meta data
142
channel
data
147

1000

FIG. 1

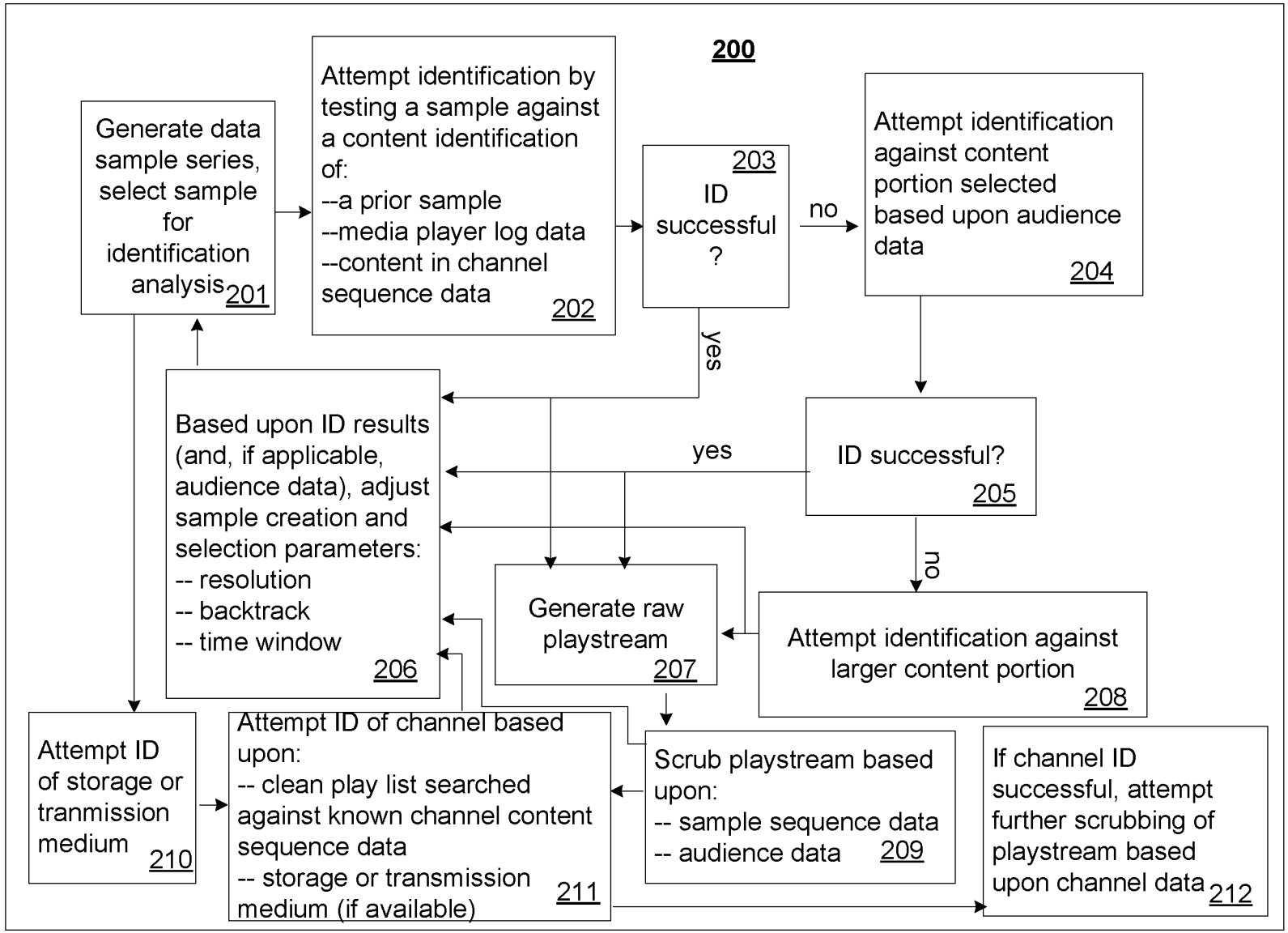

200
Generate data sample series, select sample for identification analysis 201
Attempt identification by testing a sample against a content identification of:
--a prior sample
--media player log data
--content in channel sequence data
202
203
ID successful ?
no
yes
Attempt identification against content portion selected based upon audience data
204
Based upon ID results (and, if applicable, audience data), adjust sample creation and selection parameters:
-- resolution
-- backtrack
-- time window
206
yes
ID successful?
205
no
Generate raw playstream
207
Attempt identification against larger content portion
208
Attempt ID of storage or tranmission medium
210
Attempt ID of channel based upon:
-- clean play list searched against known channel content sequence data
-- storage or transmission medium (if available)
211
Scrub playstream based upon:
-- sample sequence data
-- audience data
209
If channel ID successful, attempt further scrubbing of playstream based upon channel data
212

FIG. 2

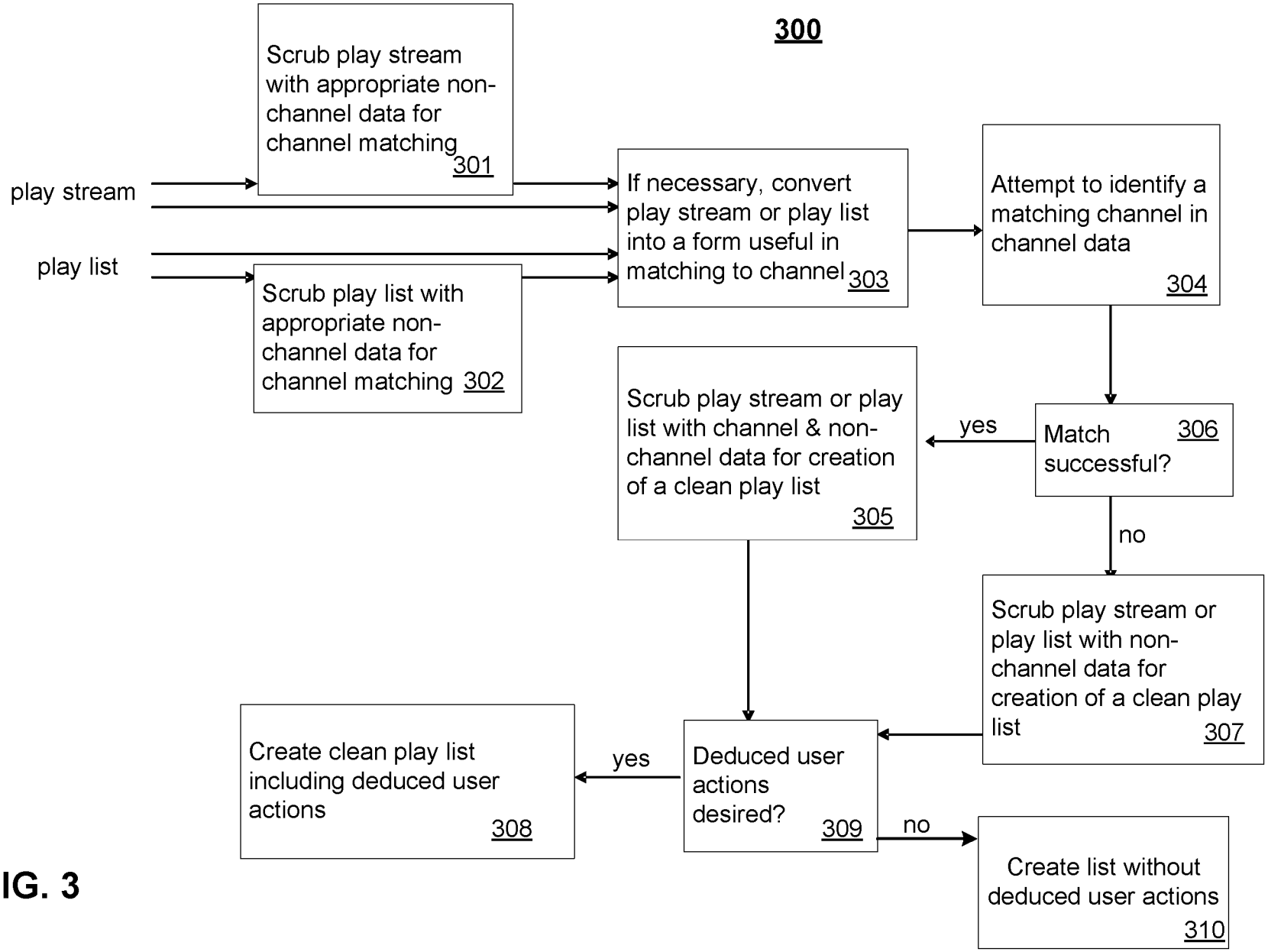

300
play stream
play list
Scrub play stream with appropriate non-channel data for channel matching 301
Scrub play list with appropriate non-channel data for channel matching 302
If necessary, convert play stream or play list into a form useful in matching to channel 303
Attempt to identify a matching channel in channel data 304
Match successful? 306
yes
no
Scrub play stream or play list with channel & non-channel data for creation of a clean play list 305
Scrub play stream or play list with non-channel data for creation of a clean play list 307
Deduced user actions desired? 309
yes
no
Create clean play list including deduced user actions 308
Create list without deduced user actions 310

FIG. 3

410

Raw Play Stream

row	log time	content ID
1	t_0	song 51
2	t_0+1	none
3	t_0 +2	song51
4	t_0+3	song51
5	t_0+4	movie 81
6	t_0+5	song51
7	t_0+6	song51
8	t_0+7	song72
9	t_0+8	song72
10	t_0+9	none
11	t_0+10	song72
12	t_0+11	song72
13	t_0+12	song72
14	t_0+13	song65
15	t_0+14	song65
16	t_0+15	TVprgm58
17	t_0+16	song65
18	t_0+17	song65
19	t_0+18	song65
20	t_0+19	song65
21	t_0+20	song21
22	t_0+21	song21
23	t_0+22	song21
24	t_0+23	song21
25	t_0+24	song21
26	t_0+25	song21
27	t_0+26	ad49
28	t_0+27	ad49
29	t_0+28	song81
30	t_0+29	song35

ssd

450

Clean Play Stream

row	log time	content ID
1	t_0	song 51
2	t_0+1	song51
3	t_0 +2	song51
4	t_0+3	song51
5	t_0+4	song51
6	t_0+5	song51
7	t_0+6	song51
8	t_0+7	song72
9	t_0+8	song72
10	t_0+9	song72
11	t_0+10	song72
12	t_0+11	song72
13	t_0+12	song72
14	t_0+13	song65
15	t_0+14	song65
16	t_0+15	song65
17	t_0+16	song65
18	t_0+17	song65
19	t_0+18	song65
20	t_0+19	song65
21	t_0+20	song21
22	t_0+21	song21
23	t_0+22	song21
24	t_0+23	song21
25	t_0+24	song21
26	t_0+25	song21
27	t_0+26	ad49
28	t_0+27	ad49
29	t_0+28	song35
30	t_0+29	song35

470

Channel Data for "radio 35"

row	start time	end time	content ID
1	C(0)	C(0)+6	song21
2	C(0)+6	C(0)+8	ad49
3	C(0)+8	C(0)+13	song35

480

Channel Data for "album 12"

row	start time	end time	content ID
1	C(0)	C(0)+7	song51
2	C(0)+7	C(0)+13	song72
3	C(0)+13	C(0)+23	song65
4	C(0)+23	C(0)+30	song29

490

Clean Play List

row	start log time	end log time	content ID	Channel ID
1	t_0	t_0+7	song51	album12
2	t_0+7	t_0+13	song71	album12
3	t_0+13	t_0+20	song65	album12
4	t_0+20	t_0+26	song21	radio35
5	t_0+26	t_0+28	ad49	radio35
6	t_0+28	t_0+30	song34	radio35

ssd = "sample sequence data"

FIG. 4

510

Clean Playstream

row	log time	content ID	content offset
1	t_0	TVprgm 27	(0)
2	t_0+1	TVprgm 27	(0)+1
3	t_0 +2	none	n/a
4	t_0+3	none	n/a
5	t_0+4	none	n/a
6	t_0+5	TVprgm 27	(0)+2
7	t_0+6	TVprgm 27	(0)+3
8	t_0+7	TVprgm27	(0)+9
9	t_0+8	TVprgm27	(0)+10
10	t_0+9	TVprgm27	(0)+9
11	t_0+10	TVprgm27	(0)+10
12	t_0+11	none	n/a
13	t_0+12	TVprgrm27	(0)+29
14	t_0+13	TVprgrm27	(0)+30
15	t_0+14	ad23	(0)
16	t_0+15	none	n/a
17	t_0+16	ad25	(0)+2
18	t_0+17	TVprgm28	(0)
19	t_0+18	TVprgm28	(0)+1
20	t_0+19	TVprgrm28	(0)+2

560

Clean Play List

row	start log time	end log time	content ID	content offset
1	t_0	t_0+2	TVprgrm27	(0)
2	t_0+2	t_0+5	none	n/a
3	t_0+5	t_0+7	TVprgrm27	(0)+2
4	t_0+7	t_0+9	TVprgrm27	(0)+9
5	t_0+9	t_0+11	TVprgrm27	(0)+9
6	t_0+11	t_0+12	none	n/a
7	t_0+12	t_0+14	TVprgrm27	(0)+29
8	t_0+14	t_0+15	ad23	(0)
9	t_0+15	t_0+16	none	n/a
10	t_0+16	t_0+17	ad25	(0)+2
11	t_0+17	t_0+20	TVprgrm28	(0)

570

Channel Data for TV C4

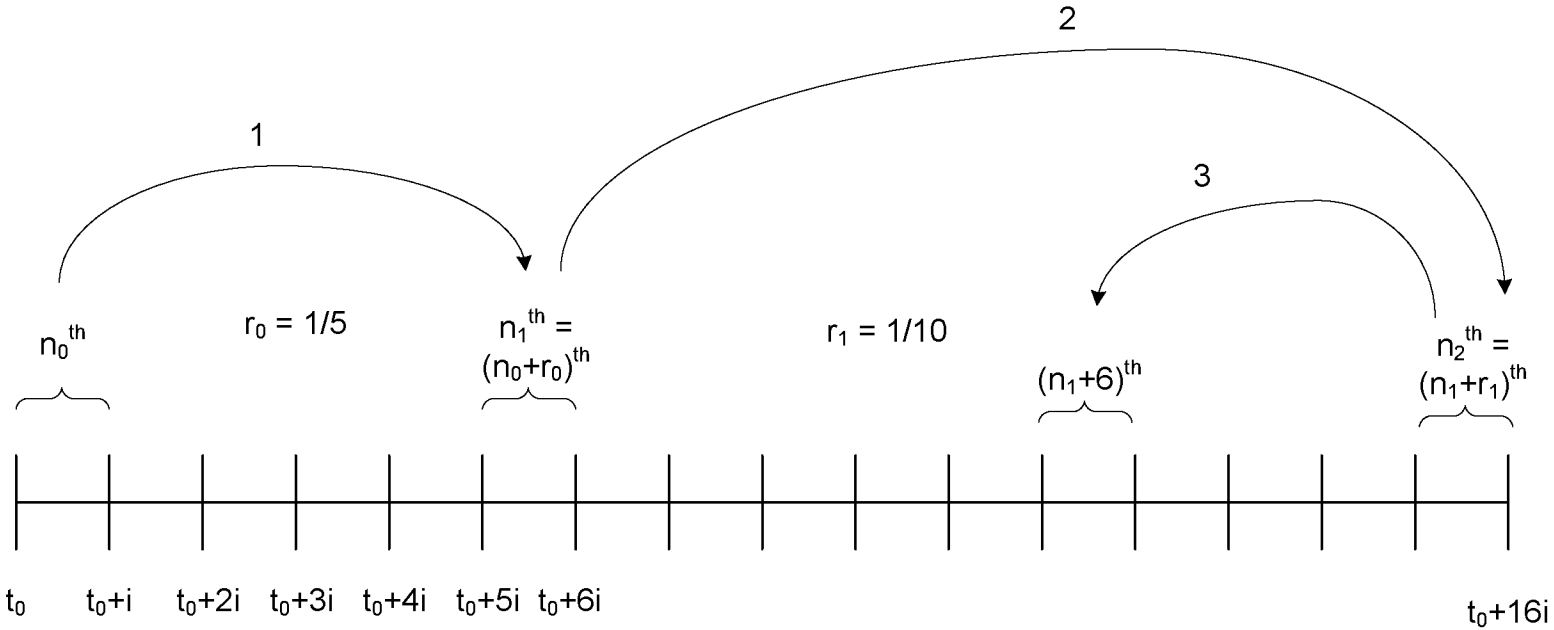
row	start time	end time	content ID
1	C(0)	C(0)+31	TVprgrm27
2	C(0)+31	C(0)+34	ad23
3	C(0)+34	C(0)+37	ad24
4	C(0)+37	C(0)+40	ad25
5	C(0)+40	C(0)+50	TVprgrm28

590

Clean Play List with Deduced Actions

row	log time	end log time	content ID and <deduced action>	content offset
1	t_0	t_0+2	TVprgrm27	(0)
2	t_0+2	t_0+5	<pause for 3 units>	n/a
3	t_0+5	t_0+7	TVprgrm27	(0)+2
4	t_0+7	t_0+7	<skip frwrd 5 units>	n/a
5	t_0+7	t_0+9	TVprgrm27	(0)+9
6	t_0+9	t_0+9	<skip bckwrd 2 units>	n/a
7	t_0+9	t_0+11	TVprgrm27	(0)+9
8	t_0+11	t_0+12	<fast frwrd 18 units>	n/a
9	t_0+12	t_0+14	TVprgrm27	(0)+29
10	t_0+14	t_0+15	ad23	(0)
11	t_0+15	t_0+16	<fast frwrd 7 units>	n/a
12	t_0+16	t_0+17	ad25	(0)+2
13	t_0+17	t_0+20	TVprgrm28	(0)

FIG. 5


1
2
3
n_0^{th}
$r_0 = 1/5$
$n_1^{th} = (n_0+r_0)^{th}$
$r_1 = 1/10$
$(n_1+6)^{th}$
$n_2^{th} = (n_1+r_1)^{th}$
t_0
t_0+i
t_0+2i
t_0+3i
t_0+4i
t_0+5i
t_0+6i
t_0+16i

600

FIG. 6

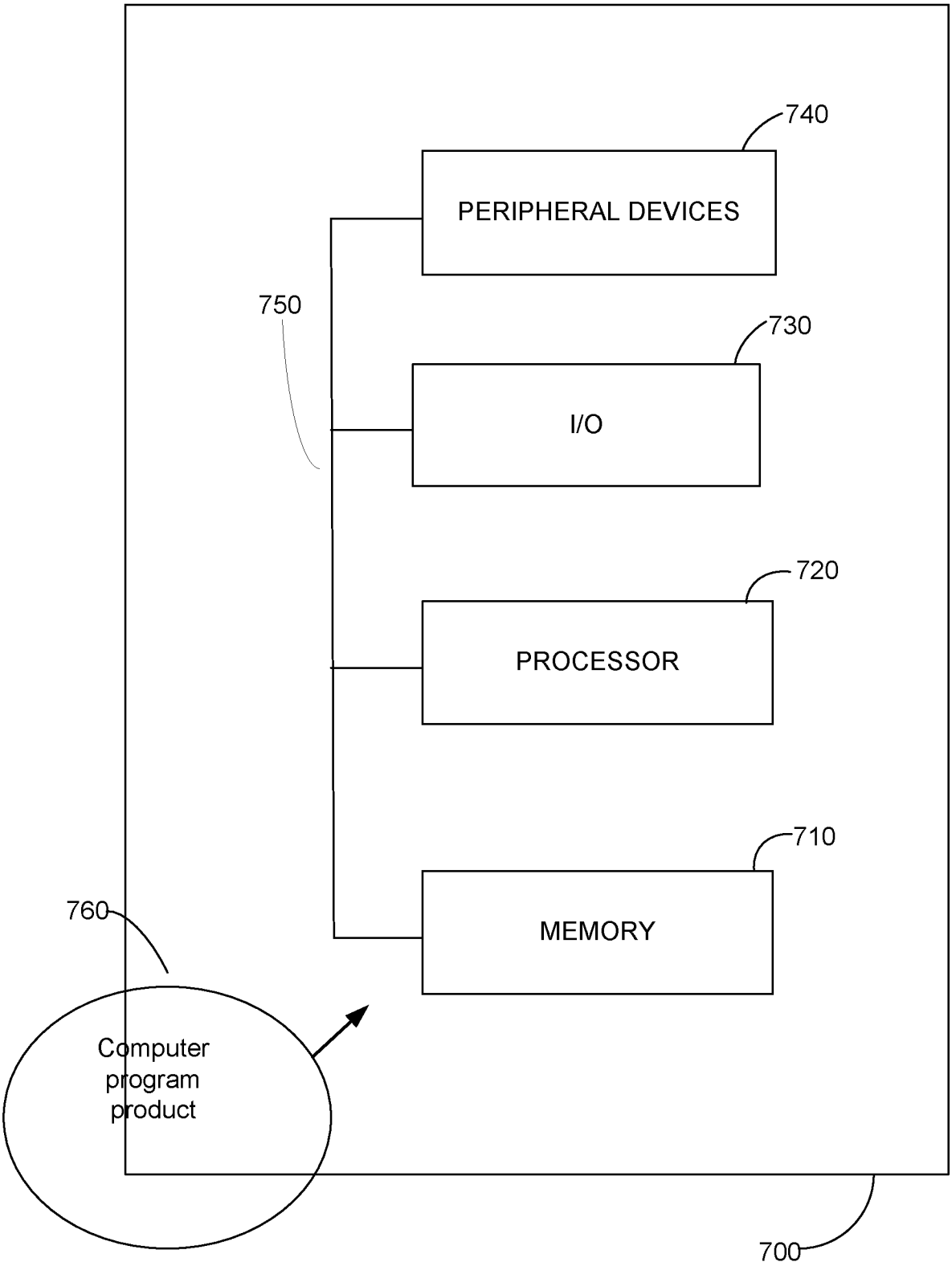

740
PERIPHERAL DEVICES
750
730
I/O
720
PROCESSOR
710
MEMORY
760
Computer program product
700

FIG. 7

REMARKS

Prior to examination on the merits, Claims 1-12 have been cancelled and new Claims 13-27 have been added. Therefore, Claims 13-27 are pending and currently under consideration.

Amendment and cancellation of certain claims is not to be construed as a dedication to the public of any of the subject matter of the claims as previously presented. No new matter has been added. Entry of the above-mentioned amendments is respectfully requested.

CONCLUSION

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. If it is determined that a telephone conversation would expedite the prosecution of this application, the Examiner is invited to telephone the undersigned at the number given below.

If the Patent Office determines that an extension of time and/or other relief is required, and such required relief has not already been requested, Applicant hereby petitions for any such required relief including extensions of time. The Director is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 50-4242, referencing docket no. 10004-2000105.

Dated: October 22, 2019

Respectfully submitted,

By /Lawrence Gabuzda/
Lawrence Gabuzda
Registration No. 51,711
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor
New York, New York 10010
(212) 524-6052
Attorney(s) for Applicant

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows, where additions are underlined and deletions are indicated by ~~strikethrough~~ or enclosed in [[double brackets]]:

1-12. (Cancelled)

13. (New) A media measurement method comprising:

(a) receiving over a network, at one or more computers, data for a sequence of video data samples, the video data samples comprising representations of video data captured at a media monitoring device, the plurality of video data samples being submitted over the network;

(b) using the one or more computers to query an electronic database of a plurality of video data representations and corresponding content identifiers;

(c) generating a raw play stream, the raw play stream comprising a sequence of content identification results corresponding to the sequence of video data samples; wherein:

the sequence of content identification results is obtained by querying the electronic database to attempt to determine respective likely matches between respective video data samples in the sequence of video data samples and respective video data representations in the electronic database;

a content identification result of the sequence of content identification results comprises either: (i) a content identifier associated in the electronic database with a respective video data representation that is determined to be a respective likely match with a respective one of the video data samples; or (ii) an indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; and

the raw play stream includes either: at least two different content identifiers obtained from the electronic database; or at least one content identifier obtained from the electronic database and at least one indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database;

(d) scrubbing the raw play stream by analyzing sample sequence data of the raw play stream to determine whether to change a result of the sequence of content of identification results in view of a pattern of the sample sequence data of the raw play stream compared to an expected pattern of sample sequence data; and

(e) generating a clean play stream from the raw play stream by making any changes to the raw play stream that are determined to be made by the scrubbing.

14. (New) The method of claim 13 wherein sample sequence data includes at least one of log times, content identifiers, and content offsets.

15. (New) The method of claim 13 wherein:

scrubbing the raw play stream further comprises analyzing channel data as part of determining whether to change a result of the sequence of content of identification results.

16. (New) The method of claim 13 wherein:

scrubbing the raw play stream further comprises using audience data as part of determining whether to change a result of the sequence of content of identification results.

17. (New) The method of claim 13 wherein a clean play list is generated from the clean play stream.

18. (New) The media measurement method of claim 13 wherein the plurality of video data representations include a plurality of video signatures.

19. (New) The media measurement method of claim 13 wherein a video data representation of the plurality of video data representations includes a plurality of signal landmarks.

20. (New) The media measurement method of claim 13 wherein a video data representation of the plurality of video data representations includes a signal usable for generating video energy corresponding to video energy captured at the media monitoring device.

21. (New) A computer program product in a non-transitory computer readable medium comprising instructions executable by one or more processors of one or more computers, the one or more computers being coupled to a network to receive, over the network, data for a sequence of video data samples, the video data samples comprising representations of video data captured at a media monitoring device, the plurality of video data samples being submitted over the network, the instructions comprising instructions for:

(a) using the one or more computers to query an electronic database of a plurality of video data representations and corresponding content identifiers;

(b) generating a raw play stream, the raw play stream comprising a sequence of content identification results corresponding to the sequence of video data samples; wherein:

the sequence of content identification results is obtained by querying the electronic database to attempt to determine respective likely matches between respective video data samples in the sequence of video data samples and respective video data representations in the electronic database;

a content identification result of the sequence of content identification results comprises either: (i) a content identifier associated in the electronic database with a respective video data representation that is determined to be a respective likely match with a respective one of the video data samples; or (ii) an indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; and

the raw play stream includes either: at least two different content identifiers obtained from the electronic database; or at least one content identifier obtained from the electronic database and at least one indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database;

(c) scrubbing the raw play stream by analyzing sample sequence data of the raw play stream to determine whether to change a result of the sequence of content of identification results in view of a pattern of the sample sequence data of the raw play stream compared to an expected pattern of sample sequence data; and

(d) generating a clean play stream from the raw play stream by making any changes to the raw play stream that are determined to be made by the scrubbing.

22. (New) The computer program product of claim 21 wherein sample sequence data includes at least one of log times, content identifiers, and content offsets.

23. (New) The computer program product of claim 21 wherein scrubbing the raw play stream further comprises analyzing channel data as part of determining whether to change a result of the sequence of content of identification results.

24. (New) The computer program product of claim 21 wherein scrubbing the raw play stream further comprises using audience data as part of determining whether to change a result of the sequence of content of identification results.

25. (New) The computer program product of claim 21 wherein the computer program product further comprises instructions for generating a clean play list from the clean play stream.

26. (New) The computer program product of claim 21 wherein the plurality of video data representations include a plurality of video signatures.

27. (New) The computer program product of claim 21 wherein a video data representation of the plurality of video data representations includes a plurality of signal landmarks.

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification as follows, where additions are underlined and deletions are indicated by ~~strikethrough~~ or enclosed in [[double brackets]]:

On page 1, please amend paragraph **[0001]** as follows:

This is a continuation of U.S. Patent Application No. 16/403,204, filed May 3, 2019, which is a divisional of U.S. Patent Application No. 14/175,811, filed February 7, 2014, which is a continuation of U.S. Patent Application No. 13/914,870, filed June 11, 2013, which is a continuation of U.S. Patent Application No. 12/954,604, filed November 24, 2010, which is a divisional of U.S. Patent Application No. 11/139,330, filed May 26, 2005, which claims priority to U.S. Provisional Patent Application No. 60/574,836, entitled, "Open-ended device-independent media usage monitoring and measurement system," filed May 27, 2004. The contents of these applications is incorporated herein by reference.

Attorney Docket No.: 10004-2000105
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer

Application No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filing Date: Concurrently Herewith

Examiner: Not Yet Assigned

Title: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

PRELIMINARY AMENDMENT

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

Dear Sir:

Prior to an Office Action on the merits, Applicant respectfully submits this preliminary amendment for the above patent application.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Remarks begin on page 8 of this paper.

PTO/AIA/08 (06-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

☐ Declaration Submitted With Initial Filing OR ■ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)

Attorney Docket Number	10004-2000104
First Named Inventor	Jonathan S. Steuer
COMPLETE IF KNOWN	
Application Number	14/175,811
Filing Date	February 7, 2014
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application,

OR

■ United States Application Number or PCT International application number 14/175,811 filed on February 7, 2014.

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

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

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

Authorization To Permit Access To Application by Participating Office

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 21 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.

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	■ The address associated with Customer Number:	51417	OR	☐ Correspondence address below

Name		
Address		
City	State	Zip
Country	Telephone	Email

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: *Patent Application Files*. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: *Deposit Accounts and Electronic Funds Transfer Profiles*.

LEGAL NAME OF SOLE OR FIRST INVENTOR:

(*E.g.*, Given Name (first and middle (if any)) and Family Name or Surname)

Jonathan S. Steuer

Inventor's Signature		Date (Optional)	
Residence: City NEW YORK	State NEW YORK	Country USA	
Mailing Address 72 E 3RD ST APT 2B			
City NEW YORK	State NY	Zip 10003-0206	Country USA

☐ Additional inventors are being named on the 1 supplemental sheet(s) PTO/AIA/10 attached hereto

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SUPPLEMENTAL SHEET FOR DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet (for PTO/AIA/08,09)

Legal Name of Additional Joint Inventor, if any:
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)
Christopher W. Otto

Inventor's Signature			Date (Optional)
Residence: City San Francisco	State CA	Country USA	
Mailing Address 894 Guerrero St			
City San Francisco	State CA	Zip 94110	Country USA

Legal Name of Additional Joint Inventor, if any:
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Inventor's Signature			Date (Optional)
Residence: City	State	Country	
Mailing Address			
City	State	Zip	Country

Legal Name of Additional Joint Inventor, if any:
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Inventor's Signature			Date (Optional)
Residence: City	State	Country	
Mailing Address			
City	State	Zip	Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 21 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 (1-800-786-9199) and select option 2.

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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Anonymous Media Research LLC

Application No./Patent No.: Not Yet Assigned Filed/Issue Date: Concurrently Herewith

Titled: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

Anonymous Media Research LLC, a limited liability corporation

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

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

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

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

1. From: Steuer, Jonathan S.; Otto, Christopher W. To: Anonymous Media LLC

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

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

2. From: Anonymous Media LLC To: Anonymous Media Research LLC

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

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

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

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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4. 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.

5. From: _____ To: _____

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

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

6. From: _____ To: _____

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

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

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

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

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

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

/Lawrence Gabuzda/	October 22, 2019
Signature	Date
Lawrence Gabuzda	51,711
Printed or Typed Name	Title or Registration Number

ASSIGNMENT
JOINT

THIS ASSIGNMENT, by Jonathan S. STEUER and Christopher W. OTTO (hereinafter referred to as the assignors), residing at 72 E. 3rd Street #2B, New York, NY 10003; and 68802 Lyra Street, Fremont, CA 94539, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD, set forth in an application for Letters Patent of the United States filed in the United States Patent and Trademark Office on May 26, 2005 and having since been designated with the application serial number 11/139,330; and having an oath or declaration executed on even date herewith; and

WHEREAS, Anonymous Media LLC, a limited liability company duly organized under and pursuant to the laws of Delaware and having its principal place of business at 72 E. 3rd Street Suite 1B, New York, NY 10003 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar ($1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

26 JUL 05
Date — Jonathan S. STEUER

Oct 26, 2005
Date — Christopher W. OTTO

COPY

ASSIGNMENT

THIS ASSIGNMENT, by Anonymous Media LLC, a limited liability company organized under the laws of Delaware and having its registered office at 72 East 3rd Street, Apartment 2B, New York, NY 10003-0206 (hereinafter referred to as the "assignor") witnesseth:

WHEREAS, said assignor is the owner, by prior assignment from the inventors, of certain patent applications for Letters Patent for a Media Usage Monitoring and Measurement System, including at least the following applications:

COUNTRY	APPLICATION NUMBER	FILING DATE
US	11/139,330	May 26, 2005
US	12/283,353	September 11, 2008
US	12/283,354	September 11, 2008
US	12/283,332	September 11, 2008
US	12/283,355	September 11, 2008
US	12/283,333	September 11, 2008
US	12/954,604	November 24, 2010
PCT	PCT/US05/18934	May 27, 2005
EP	05755114.5	May 27, 2005
AU	2005251196	May 27, 2005

(collectively, "The Patent Applications").

WHEREAS, Anonymous Media Research LLC, a limited liability company organized under the laws of Delawarea and having a place of business at 72 East 3rd Street, Apartment 2B, New York, NY 10003-0206 (hereinafter referred to as the "assignee") is desirous of confirming its acquisition of the entire right, title and interest in and to The Patent Applications, and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar ($1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignor has sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to The Patent Applications for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would has been held and enjoyed by the assignor, had this sale and assignment not been made.

AND for the same consideration, said assignor hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignor have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignor hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignor hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Assignor has caused this Patent Assignment to be duly executed by a duly authorized representative on its behalf:

ANONYMOUS MEDIA, LLC

By: _____ Date: 1 DEC 2010

Jonathan Steuer, Manager

PTO/SB/80 (11-08)
Approved for use through 11/30/2011 OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☑ Practitioners associated with the Customer Number: 51417

OR

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

Name	Registration Number	Name	Registration Number

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

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

☐ The address associated with Customer Number:

OR

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

Assignee Name and Address:
Anonymous Media Research, LLC
72 E. 3rd St., Suite 1B, NY, NY 10003

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

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

Signature		Date	1 DEC 2010
Name	Jonathan S. Steuer	Telephone	866 295 2666
Title	MANAGER & CEO		

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

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16660615
Filing Date	2019-10-22
First Named Inventor	Jonathan S. Steuer
Art Unit	2861
Examiner Name	Not Yet Assigned
Attorney Docket Number	10004-2000105

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8677389	B2	2014-03-18	Steuer et al.	
	2	8510768	B2	2013-08-13	Steuer et al.	
	3	8756622	B2	2014-06-17	Steuer et al.	
	4	8296791	B2	2012-10-23	Steuer et al.	
	5	6990453	B2	2006-01-24	Wang et al.	
	6	4697209		1987-09-29	Kiewit et al.	
	7	4677466		1987-06-30	Lert, Jr. et al.	
	8	5594934	A	1997-01-14	Lu et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16660615
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	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	9	6513161	B2	2003-01-28	Wheeler et al.	
	10	3919479		1975-11-11	Moon et al.	
	11	5945988	A	1999-08-31	Williams et al.	
	12	5095382	A	1992-03-10	Kensasku Abe	
	13	5512933	A	1996-04-30	Wheatley et al.	
	14	7483975	B2	2009-01-27	Kolessar et al.	
	15	5437050	A	1995-07-25	Lamb et al.	
	16	5758257	A	1998-05-26	Herz et al.	
	17	7444353	B1	2008-10-28	Chen et al.	
	18	7779415	B2	2010-08-17	Bisdikian et al.	
	19	7038619	B2	2006-05-02	Percy et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	20	5436653	A	1995-07-25	Ellis et al.	
	21	8131389	B1	2012-03-06	Hardwick et al.	
	22	5210366	A	1993-05-11	Sykes, Jr.	
	23	7634787	B1	2009-12-15	Gebhardt et al.	
	24	5404161	A	1995-04-04	Douglass et al.	
	25	5844938	A	1998-12-01	Hupp et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020161741	A1	2002-10-31	Wang et al.	
	2	20040122679	A1	2004-06-24	Neuhauser et al.	
	3	20020059577	A1	2002-05-16	Lu et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16660615
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	4	20020072982	A1	2002-06-13	Barton et al.	
	5	20060059277	A1	2006-03-16	Zito et al.	
	6	20020010919	A1	2002-01-24	Lu et al.	
	7	20020038456	A1	2002-03-28	Hansen et al.	
	8	20020083060	A1	2002-06-27	Wang et al.	
	9	20040224638	A1	2004-11-11	Fadell et al.	
	10	20030009469	A1	2003-01-09	Platt et al.	
	11	20040001161	A1	2004-01-01	Herley	
	12	20050086682	A1	2005-04-21	Burges et al.	
	13	20070143777	A1	2007-06-21	Wang	
	14	20040048637	A1	2004-03-11	Atkinson	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16660615
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	15	20080154401	A1	2008-06-26	Wang	
	16	20040055445	A1	2004-03-25	Iyoku et al.	
	17	20030135623	A1	2003-07-17	Schrempp et al.	
	18	20040034441	A1	2004-02-19	Eaton et al.	
	19	20030177488	A1	2003-09-18	Smith et al.	
	20	20190259056	A1	2019-08-22	Steuer et al.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2004040475	WO	A2	2004-05-13	Haitsma		☐
	2	03091990	WO	A1	2003-11-06	Wang et al.		☐
	3	0227600	WO	A2	2002-04-04	Wang et al.		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16660615
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	4	2005006768	WO	A1	2005-01-20	Lee et al.		☐
	5	2005036877	WO	A1	2005-04-21	Deng		☐
	6	2004030341	WO	A1	2004-04-08	Haitsma		☐
	7	2004044821	WO	A1	2004-05-27	Seo et al.		☐
	8	2004077430	WO	A1	2004-09-10	Haitsma et al.		☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	PINTO, "Mediawatch meters a complex mix of media, passively," Indiantelevision.com, www.inidiantelevision.com/ headlines/y2k5/feb/feb117.htm, February 19, 2005, 5 pages.	☐
	2	HEDGES, "New measurement devices raise new questions. Will we ever know who's listening?" ftm, www. follwthemedia.com/number/devices01082004.htm, August 1, 2004, 5 pages	☐
	3	NIELSEN MEDIA RESEARCH, "Summary Report of the Active/Passive (A/P) Meter Regional Test," November 11, 2002, 26 pages	☐
	4	GERTNER, "Our Ratings, Ourselves," Watching What You Watch, The New York Times Magazine, April 10, 2005, 17 pages	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16660615
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	5	ARBITRON, "The Portable People Meter System," Portable People Meter, www.arbitron.com/protable_people_meters/ppm_system.htm, 2004, 4 pages	☐
	6	NIELSEN MEDIA RESEARCH, "Active/Passive Metering begins July 2004," Client Communications, August 6, 2003, 3 pages	☐
	7	PHILIPS, "Audio Fingerprinting for automatic music recognition," Philips Research brochure, www.researchphilips.com, 2 pages	☐
	8	SCHONEBERG, Gfk AG, "Gfk unveils its multi-talented new MediaWatch," Press info, June 14, 2004, 2 pages	☐
	9	International Search Report and Written Opinion, International Application No. PCT/US05/18934, mailed October 26, 2006, 14 pages	☐
	10	European Search Report, European Application No. 05755114.5, dated October 8, 2013, 3 pages.	☐
	11	Steuer et al., U.S Patent Application No. 16/660,624, filed October 22, 2019.	☐
	12	Steuer et al., U.S Patent Application No. 16/660,633, filed October 22, 2019.	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	16660615
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Michael Mauriel/	Date (YYYY-MM-DD)	2019-11-01
Name/Print	Michael Mauriel	Registration Number	44,226

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

Electronic Acknowledgement Receipt

EFS ID:	37636383
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Michael John Mauriel/Emily Sullenberger
Filer Authorized By:	Michael John Mauriel
Attorney Docket Number:	10004-2000105
Receipt Date:	01-NOV-2019
Filing Date:	
Time Stamp:	18:27:15
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	Transmittal Letter	10004-2000105IDSTransmittal.pdf	89987 b66aa1baa0b9de81b2823b1759991b257333ea1f	no	4

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	10004-2000105IDS.pdf	177159 8fca583306e3b95e563a1760753881a0637f7534	no	8
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
			Total Files Size (in bytes):	267146	

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

PATENT
Docket No. 10004-2000105

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer	Examiner: Not Yet Assigned
Serial No.: 16/660,615	Group Art Unit: 2861
Filing Date: October 22, 2019	
For: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97 & § 1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a. The Examiner is requested to make these document(s) of record. To the extent required, copies of other references have already been provided in the prosecution of at least the following related US Application Nos.: 11/139,330, 12/954,604, and 16/403,204.

Applicants note that, pursuant to MPEP Section 609.04(a)(II)(C), for cited unpublished pending U.S. patent applications that are stored on the U.S. Patent Office's IFW system, copies are not required to be submitted. Therefore, for any such cited documents, copies are not included herein.

This Information Disclosure Statement is submitted:

☐ With the application.

☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or certification is necessary.

☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.

- ☐ The fee set forth in 37 CFR 1.17p is paid herewith.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
  - ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.
  - ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.

- ☐ The fee set forth in 37 C.F.R. § 1.17p is paid herewith and a Certification under 37 C.F.R. § 1.97(e) is provided below:
  - ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent

office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

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

Applicant would appreciate the Examiner initialing and returning the Form PTO/SB/08a, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

If the Patent Office determines that an extension of time and/or other relief is required and such required relief has not already been requested, Applicant hereby petitions for any such required relief including extensions of time. The Director is hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 50-4242, referencing docket no. 10004-2000105.

Dated: November 1, 2019

Respectfully submitted,

By: /Michael Mauriel/ Reg. No. 44,226

Michael Mauriel
Registration No. 44,226
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor
New York, New York 10010
(212) 532-2527
Attorney(s) for Applicant

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
16/660,615

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	15 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	785		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

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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
16/660,615	10/22/2019	2861	785	10004-2000105	15	2

CONFIRMATION NO. 5870

FILING RECEIPT

OC000000112484386

51417
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

Date Mailed: 11/08/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Jonathan S. Steuer, New York, NY;
Christopher W. Otto, San Francisco, CA;

Applicant(s)

Anonymous Media Research LLC, New York, NY;

Assignment For Published Patent Application

Anonymous Media Research LLC, New York, NY

Power of Attorney: The patent practitioners associated with Customer Number 51417

Domestic Priority data as claimed by applicant

This application is a CON of 16/403,204 05/03/2019
which is a DIV of 14/175,811 02/07/2014 ABN
which is a CON of 13/914,870 06/11/2013 ABN
which is a CON of 12/954,604 11/24/2010 ABN
which is a DIV of 11/139,330 05/26/2005 ABN
which claims benefit of 60/574,836 05/27/2004

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 11/06/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/660,615**

Projected Publication Date: 02/13/2020

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

Preliminary Class

073

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

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community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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P.O. Box 1450
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

51417 7590 01/24/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

EXAMINER
DAVIS, CHENEA

ART UNIT	PAPER NUMBER
2421	

NOTIFICATION DATE	DELIVERY MODE
01/24/2020	ELECTRONIC

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

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

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

docket@mkwllp.com

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 16/660,615	Applicant(s) Steuer et al.	
	Examiner CHENEA DAVIS	Art Unit 2421	AIA (FITF) Status No

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 10/22/19.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5) ☑ Claim(s) 13-27 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 13-27 is/are rejected.

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

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

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

Application Papers

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

11)☑ The drawing(s) filed on 10/22/19 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

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

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§

706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

3. Claims 13-27 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-15 of U.S. Patent No.8510768. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of the instant application are anticipated in every aspect expect that the instant claims are directed toward "video data", which is an obvious variant of the "audio data" of the patented claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENEA DAVIS whose telephone number is (571)272-9524. The examiner can normally be reached on M-F: 8:00 am - 4:00 pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is

encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. 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.

/CHENEA DAVIS/
Primary Examiner, Art Unit 2421

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

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

CLAIMS

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

CLAIM		DATE								
Final	Original	01/20/2020								
	1	-								
	2	-								
	3	-								
	4	-								
	5	-								
	6	-								
	7	-								
	8	-								
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	10	-								
	11	-								
	12	-								
	13	✓								
	14	✓								
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	20	✓								
	21	✓								
	22	✓								
	23	✓								
	24	✓								
	25	✓								
	26	✓								
	27	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

CPC - Searched*		
Symbol	**Date**	**Examiner**
g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33	01/20/2020	CD

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
EAST search results included	01/20/2020	CD
Inventor search included - see search results printout	01/20/2020	CD
class search (725), cpc search (see above) - text search only, see search results printout	01/20/2020	CD

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	see search results printout	01/20/2020	CD

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16660615
Filing Date	2019-10-22
First Named Inventor	Jonathan S. Steuer
Art Unit	2861
Examiner Name	Not Yet Assigned
Attorney Docket Number	10004-2000105

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8677389	B2	2014-03-18	Steuer et al.	
	2	8510768	B2	2013-08-13	Steuer et al.	
	3	8756622	B2	2014-06-17	Steuer et al.	
	4	8296791	B2	2012-10-23	Steuer et al.	
	5	6990453	B2	2006-01-24	Wang et al.	
	6	4697209		1987-09-29	Kiewit et al.	
	7	4677466		1987-06-30	Lert, Jr. et al.	
	8	5594934	A	1997-01-14	Lu et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

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	9	6513161	B2	2003-01-28	Wheeler et al.	
	10	3919479		1975-11-11	Moon et al.	
	11	5945988	A	1999-08-31	Williams et al.	
	12	5095382	A	1992-03-10	Kensasku Abe	
	13	5512933	A	1996-04-30	Wheatley et al.	
	14	7483975	B2	2009-01-27	Kolessar et al.	
	15	5437050	A	1995-07-25	Lamb et al.	
	16	5758257	A	1998-05-26	Herz et al.	
	17	7444353	B1	2008-10-28	Chen et al.	
	18	7779415	B2	2010-08-17	Bisdikian et al.	
	19	7038619	B2	2006-05-02	Percy et al.	

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	20	5436653	A	1995-07-25	Ellis et al.	
	21	8131389	B1	2012-03-06	Hardwick et al.	
	22	5210366	A	1993-05-11	Sykes, Jr.	
	23	7634787	B1	2009-12-15	Gebhardt et al.	
	24	5404161	A	1995-04-04	Douglass et al.	
	25	5844938	A	1998-12-01	Hupp et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020161741	A1	2002-10-31	Wang et al.	
	2	20040122679	A1	2004-06-24	Neuhauser et al.	
	3	20020059577	A1	2002-05-16	Lu et al.	

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	4	20020072982	A1	2002-06-13	Barton et al.	
	5	20060059277	A1	2006-03-16	Zito et al.	
	6	20020010919	A1	2002-01-24	Lu et al.	
	7	20020038456	A1	2002-03-28	Hansen et al.	
	8	20020083060	A1	2002-06-27	Wang et al.	
	9	20040224638	A1	2004-11-11	Fadell et al.	
	10	20030009469	A1	2003-01-09	Platt et al.	
	11	20040001161	A1	2004-01-01	Herley	
	12	20050086682	A1	2005-04-21	Burges et al.	
	13	20070143777	A1	2007-06-21	Wang	
	14	20040048637	A1	2004-03-11	Atkinson	

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	15	20080154401	A1	2008-06-26	Wang	
	16	20040055445	A1	2004-03-25	Iyoku et al.	
	17	20030135623	A1	2003-07-17	Schrempp et al.	
	18	20040034441	A1	2004-02-19	Eaton et al.	
	19	20030177488	A1	2003-09-18	Smith et al.	
	20	20190259056	A1	2019-08-22	Steuer et al.	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2004040475	WO	A2	2004-05-13	Haitsma		☐
	2	03091990	WO	A1	2003-11-06	Wang et al.		☐
	3	0227600	WO	A2	2002-04-04	Wang et al.		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

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	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000105

	4	2005006768	WO	A1	2005-01-20	Lee et al.		☐
	5	2005036877	WO	A1	2005-04-21	Deng		☐
	6	2004030341	WO	A1	2004-04-08	Haitsma		☐
	7	2004044821	WO	A1	2004-05-27	Seo et al.		☐
	8	2004077430	WO	A1	2004-09-10	Haitsma et al.		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	PINTO, "Mediawatch meters a complex mix of media, passively," Indiantelevision.com, www.inidiantelevision.com/ headlines/y2k5/feb/feb117.htm, February 19, 2005, 5 pages.	☐
	2	HEDGES, "New measurement devices raise new questions. Will we ever know who's listening?" ftm, www. follwthemedia.com/number/devices01082004.htm, August 1, 2004, 5 pages	☐
	3	NIELSEN MEDIA RESEARCH, "Summary Report of the Active/Passive (A/P) Meter Regional Test," November 11, 2002, 26 pages	☐
	4	GERTNER, "Our Ratings, Ourselves," Watching What You Watch, The New York Times Magazine, April 10, 2005, 17 pages	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

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Attorney Docket Number	10004-2000105

	5	ARBITRON, "The Portable People Meter System," Portable People Meter, www.arbitron.com/protable_people_meters/ppm_system.htm, 2004, 4 pages	☐
	6	NIELSEN MEDIA RESEARCH, "Active/Passive Metering begins July 2004," Client Communications, August 6, 2003, 3 pages	☐
	7	PHILIPS, "Audio Fingerprinting for automatic music recognition," Philips Research brochure, www.researchphilips.com, 2 pages	☐
	8	SCHONEBERG, Gfk AG, "Gfk unveils its multi-talented new MediaWatch," Press info, June 14, 2004, 2 pages	☐
	9	International Search Report and Written Opinion, International Application No. PCT/US05/18934, mailed October 26, 2006, 14 pages	☐
	10	European Search Report, European Application No. 05755114.5, dated October 8, 2013, 3 pages.	☐
	11	Steuer et al., U.S Patent Application No. 16/660,624, filed October 22, 2019.	☐
	12	Steuer et al., U.S Patent Application No. 16/660,633, filed October 22, 2019.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/CHENEA DAVIS/	Date Considered	01/20/2020

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

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Attorney Docket Number	10004-2000105

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Michael Mauriel/	Date (YYYY-MM-DD)	2019-11-01
Name/Print	Michael Mauriel	Registration Number	44,226

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	345	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
L2	6	1 and (sampl$3 with sequen$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
L3	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
L8	149762	(g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33).cpc. "725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:22
L9	27	1 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:22
L10	27	((("STEUER") near3 ("Jonathan")) OR (("OTTO") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/01/20 12:22
L11	4	((("ANONYMOUS") near3 ("MEDIA") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	USPAT	OR	ON	2020/01/20 12:22
L12	0	(10 11) and 1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:23

L13	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4)) and (sampl$3 with sequen$6)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:23
L14	13	(10 11) and 13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:24
L15	401	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4))	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:24
L16	401	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 play$1stream$1 playlist$4))	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:24
L18	13	(10 11) and 16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
L19	54	16 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
L20	6	19 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
S1	91	("20020161741" | "4677466" | "20020083060" | "7444353" | "20020038456" | "6990453" | "20040224638" | "20020059577" | "20040122679" | "3919479" | "7483975" | "20030009469" | "20040001161" | "20020072982" | "7038619" | "4697209" | "20020072982" | "5095382" | "20050086682" | "5594934" | "5778137" | "20060059277" | "20020010919" | "5945988" | "6513161" | "20020010919" | "5758257" | "5512933" | "20070143777" | "5437050" | "7779415" | "20040048637").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:25
S2	68	(arbotron nielsen).as. and paus$3	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2016/07/10 15:36

			EPO; JPO; DERWENT; IBM_TDB			
S3	7	S2 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S4	79	(arbitron nielsen).as. and paus$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S5	12	S4 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S6	2	10/483825.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:50
S7	2	"6184918".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 20:37
S8	17	("20020072982" | "20050086682" | "20060059277" | "7038619" | "7444353" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 21:02
S9	13275	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:39
S10	333	S9 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:39
S11	63038	"725".clas.	US-PGPUB; USPAT;	OR	OFF	2016/07/11 01:39

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S12	203	S10 AND ((H04N21/812 OR H04N21/44008 OR H04N21/4394 OR H04N21/4126 OR H04N21/23 OR H04N21/258 OR H04N21/25866 OR H04N21/4227 OR H04N21/4334 OR H04N21/47214 OR H04N21/478 OR H04N21/4788 OR H04N21/632 OR H04N21/6543 OR H04N21/8133 OR H04N21/25891 OR H04N21/44222 OR H04N21/2407 OR H04N21/2668 OR H04N21/4532 OR H04N21/4622 OR H04N21/84 OR H04N21/6175 OR H04N21/6582 OR H04N21/2393 OR H04N21/2541 OR H04N21/25883 OR H04N21/41407 OR H04N21/4627 OR H04N21/47205 OR H04N21/4725 OR H04N21/4821 OR H04N21/8586 OR H04N21/23424 OR H04N21/23617 OR H04N21/2387 OR H04N21/251 OR H04N21/2543 OR H04N21/25875 OR H04N21/26266 OR H04N21/2665 OR H04N21/4314 OR H04N21/4316 OR H04N21/44 OR H04N21/44204 OR H04N21/4756 OR H04N21/4786 OR H04N21/6125 OR H04N21/64322 OR H04N21/8358 OR H04N21/858 OR H04N21/26258 OR H04N21/42203 OR H04N21/442 OR H04N21/44218 OR H04N21/8405 OR H04N21/435 OR H04N21/44213 OR H04N21/4826 OR H04N21/6587 OR H04N21/8352 OR H04N21/2187 OR H04N21/23614 OR H04N21/25841 OR H04N21/26603 OR H04N21/4122 OR H04N21/42204 OR H04N21/4223 OR H04N21/4307 OR H04N21/431 OR H04N21/43615 OR H04N21/4367 OR H04N21/437 OR H04N21/458 OR H04N21/466 OR H04N21/4668 OR H04N21/472 OR H04N21/4828 OR H04N21/80 OR H04N21/8456 OR H04N5/60 OR H04N7/17318 OR H04N13/0062 OR H04N13/0239 OR H04N13/044 OR H04N13/0495 OR H04N2005/2255 OR H04N21/23418 OR H04N21/23439 OR H04N21/2347 OR H04N21/24 OR H04N21/25435 OR H04N21/262 OR H04N21/26613 OR H04N21/42201 OR H04N21/42684 OR H04N21/4335 OR H04N21/4398 OR H04N21/4405 OR H04N21/441 OR H04N21/44209 OR H04N21/4424 OR H04N21/45 OR H04N21/4542 OR H04N21/4623 OR H04N21/4667 OR H04N21/47 OR H04N21/47217 OR H04N21/4722 OR H04N21/4755 OR H04N21/4758 OR H04N21/4784 OR H04N21/4825 OR H04N21/485 OR H04N21/6371 OR H04N21/6581 OR H04N21/8126 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40

		H04N21/8355 OR H04N21/8455 OR H04N21/854 OR H04N21/8543 OR H04N5/225 OR H04N5/23206 OR H04N5/32 OR H04N5/3205 OR H04N5/321 OR H04N5/77 OR H04N5/783 OR H04N5/93 OR H04N7/17327 OR H04N7/185).CPC.)				
S13	25328	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40
S14	47	S10 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40
S15	67	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41
S16	44	S10 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41
S17	32	S16 AND ((H04N21/2347 OR H04N21/2541 OR H04N21/4143 OR H04N21/4405 OR H04N21/4627 OR H04N21/25875 OR H04N21/8355 OR H04N21/235 OR H04N21/2362 OR H04N21/2543 OR H04N21/2547 OR H04N21/4345 OR H04N21/435 OR H04N21/44204 OR H04N21/443 OR H04N21/4753 OR H04N21/6581 OR H04N21/8166 OR H04N21/835 OR H04N21/83555 OR H04N21/8358 OR H04N7/162 OR H04N7/17309 OR H04N21/23476 OR H04N2005/91364 OR H04N21/42646 OR H04N21/4325 OR H04N5/913 OR H04N7/163 OR H04N5/765 OR H04N5/77 OR H04N5/775 OR H04N5/781 OR H04N5/85 OR H04N9/8042 OR H04N19/107 OR H04N19/124 OR H04N19/14 OR H04N19/142 OR H04N19/149 OR H04N19/15 OR H04N19/152 OR H04N19/176 OR H04N19/179 OR H04N19/503 OR H04N19/61 OR H04N21/26613 OR H04N21/4623 OR H04N19/42 OR H04N19/87 OR H04N21/25816 OR H04N21/4316 OR H04N21/454 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41

		H04N21/47 OR H04N21/47214 OR H04N21/6334 OR H04N5/76).CPC.)				
S18	16	(signal$3 near2 user$1 near2 expos$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:49
S19	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/11 01:49
S20	24	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/11 01:49
S21	24	S19 S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:49
S22	2	S18 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:49
S23	12	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:13
S24	2	("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:14
S25	0	wo-2003091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S26	0	wo-2003/091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S27	0	wo-03/091990-$.did.	US-PGPUB; USPAT; USOCR;	OR	OFF	2017/04/01 13:23

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S28	3	wo-03091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S29	3	10/978313.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S30	32536	(h04l65/60 h04l67/22 g06q30/0246).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:13
S31	64	S30 and ((media content$1) near offset$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:14
S32	0	S31 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:14
S33	17	(signal$3 near2 user$1 near2 expos$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:17
S34	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/01 14:17
S35	24	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/01 14:17
S36	24	S34 S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:17
S37	2	S33 and S36	US-PGPUB;	OR	OFF	2017/04/01

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:17
S38	5	S36 and (offset$1.clm.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S39	64525	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S40	1	S31 and S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S41	21	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 16:26
S42	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:07
S43	2	"20080154401".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:11
S44	1076416	(determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:15
S45	297	(determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1) near3 (sequen$6 near3 (sampl$4 clip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/03/29 17:16

			IBM_TDB			
S46	139	@ad< "20050526" and S45	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:16
S47	0	S46 and ((media video$1 content$1 audio$1 music$1 song$1) near recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S48	0	S46 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S49	1	S46 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near2 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S50	1740	((determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1)) with ((order$3 sequen$6) near2 (sampl$4 clip$4 music$1 song$1 video$1 content$1 media$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S51	566	@ad< "20050526" and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S52	44	S51 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S53	105850	((media video$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:22
S54	4361	S53 and ((Sequen$6 order$3) near (sampl$4 clip$4))	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/03/29 17:23

			EPO; JPO; DERWENT; IBM_TDB			
S55	11	("4843562" "5210820" "20020083060").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:30
S56	105850	((media video$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:52
S57	20459	S56 and ((Sequen$6 order$3) near3 (music audio video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:52
S58	3434	S57 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:53
S59	610	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with ((Sequen$6 order$3) near3 (music audio video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:54
S60	174	S59 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:55
S61	12	S56 and S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:55
S62	9624	S56 and ((Sequen$6) near3 (music video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:57
S63	1600	S62 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1	US-PGPUB; USPAT;	OR	OFF	2018/03/29 21:57

		source$1 channel$1 album$1))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S64	315	S63 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:57
S65	315	S56 and S64	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S66	154	S65 and offset$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S67	154	S65 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S68	94	S67 and (music song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:59
S69	987	S56 and ((Sequen$6) near3 (music song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:00
S70	216	S69 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:00
S71	216	S56 and S70	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:01

S72	83	S71 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:01
S73	58	S72 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:01
S74	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:04
S75	0	13/914870.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:07
S76	188	S71 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:11
S77	88	S76 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:12
S78	30	S77 not S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:12
S79	123	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with based with ((music video$1 media song$1 content$1) near2 (sequenc$3 order$3 offset$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:15
S80	73	S79 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/03/29 22:16

			DERWENT; IBM_TDB			
S81	2	"7986913".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:22
S82	2	"20070143777".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:22
S83	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:06
S84	1	S83 and (expos$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:06
S85	1	15/025137.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:37
S86	1	S85 and (monitor$3 with cloud$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:37
S87	0	S85 and (monitor$3 with cloud$1 with sun)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:39
S88	0	"200600592778".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 09:53
S89	3	"20060059277".pn.	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/03/30 09:53

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S90	2	11/216543.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 09:53
S91	23	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "20070143777" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/23 09:11
S92	26	("20090244402" | "20100031288" | "20110209177" | "20110289536" | "20140059628" | "20150020091" | "20150140896" | "20150312636" | "20170188201" | "7046161").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/23 12:44
S93	18	(signal$3 near2 user$1 near2 expos$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S94	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/10/30 18:31
S95	25	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/10/30 18:31
S96	25	S94 S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S97	2	S93 and S96	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S98	17934	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S99	481	S98 and (detect$4 with (paus$3	US-PGPUB;	OR	OFF	2018/10/30

		rewind$3 skip$4))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:31
S100	43966	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S101	105	S99 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S102	128	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with based with ((music video$1 media song$1 content$1) near2 (sequenc$3 order$3 offset$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S103	74	S102 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S104	105	S99 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S105	0	(content near offset$1) and (expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:33
S106	0	S96 and (expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:33
S107	0	(expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/10/30 18:34

			IBM_TDB			
S108	1870	((expos$3 view$3 watch$3) with tim$3 with ((another other different) with broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:34
S109	0	S96 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S110	0	h04n/21.$6.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S111	416627	h04n21/$6.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S112	69510	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S113	470202	S111 S112 S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S114	471036	S108 anbd S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S115	1312	S108 and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S116	0	S115 and (tim$3 near3 position$1 near3 within near (media content$1 video$1 program$4))	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/10/30 18:37

			EPO; JPO; DERWENT; IBM_TDB			
S117	1	S115 and (tim$3 near3 position$1 near3 within near3 (media content$1 video$1 program$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:37
S118	9	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "20070143777" | "7779415").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:28
S119	1	"20020083060".pn.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:37
S120	4	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:41
S121	135	("20020010919" | "20020038456" | "20020059577" | "20020072982" | "20020083060" | "20020161741" | "20030009469" | "20030135623" | "20030177488" | "20040001161" | "20040034441" | "20040048637" | "20040055445" | "20040122679" | "20040224638" | "20050086682" | "20060059277" | "20070143777" | "20080154401" | "3919479" | "4677466" | "4697209" | "5095382" | "5210366" | "5404161" | "5436653" | "5437050" | "5512933" | "5594934" | "5758257" | "5844938" | "5945988" | "6513161" | "6990453" | "7038619" | "7444353" | "7483975" | "7634787" | "7779415" | "8131389" | "8296791" | "8510768" | "8677389" | "8756622").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 09:52
S122	4	steuer.in. and (play$1altering).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:21
S123	1	16/403204.app. and (offset$1 with (tim$3 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:25
S124	1	16/403204.app. and (offset$1 with (tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:26

S125	1	16/403204.app. and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:26
S126	0	11/139330.app. and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:27
S127	1	11/139330.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:27
S128	2	steuer.in. and (offset$1 with (tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:12
S129	2	steuer.in. and (offset$1 and (timecode$1 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:12
S130	19908	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S131	553	S130 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S132	46928	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S133	118	S131 and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2019/09/03 11:13

			DERWENT; IBM_TDB			
S134	13	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 11:13
S135	26	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 11:13
S136	26	S134 S135	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S137	2	S136 and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:14
S138	4	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 11:31
S139	20369	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S140	569	S139 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S141	48085	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S142	123	S140 and S141	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S143	13	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/11/12 11:19
S144	26	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/11/12 11:19
S145	26	S143 S144	US-PGPUB;	OR	OFF	2019/11/12

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:19
S146	2	S145 and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S147	569	S139 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:20
S148	2	steuer.in. and (offset$1 and (timecode$1 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:20
S150	2	14/044233.app.	US-PGPUB; USPAT; EPO	OR	OFF	2019/11/12 12:59

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:20
L5	0	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:20
L6	6	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:21
L7	74551	(g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33).cpc. "725".clas.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:22
L17	6	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 play$1stream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:25
S149	2	((COMPAR$5 with (captur$4 near2 tim$3) with offset$1) and (deduc$5 with play$1alter$3)).clm.	US-PGPUB; USPAT	OR	OFF	2019/11/12 11:22
S151	2	14/"Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/11/12 12:58

1/20/2020 12:26:17 PM
C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 811 RCE.wsp

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Application No: 16/660,615

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /CHENEA DAVIS/ (Examiner's Signature) | Initials

Title: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/22/2019	705	2421	10004-2000105
RULE			

APPLICANTS

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Christopher W. Otto San Francisco, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 16403204 05/03/2019

16403204 is a DIV of 14175811 02/07/2014ABN

14175811 is a CON of 13914870 06/11/2013ABN

13914870 is a CON of 12954604 11/24/2010ABN

12954604 is a DIV of 11139330 05/26/2005ABN

11139330 has PRO of 60574836 05/27/2004

FOREIGN APPLICATIONS

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11/06/2019

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16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105

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

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer

Application No.: 16/660,615 Group Art Unit: 2421

Filing Date: October 22, 2019 Examiner: Davis, Chenea

Title: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

AMENDMENT UNDER 37 CFR § 1.111

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

Dear Sir:

This is in response to the Office Action dated January 24, 2020 (Paper No. 20200120) for which a response is due on April 24, 2020. Accordingly, this response is timely filed. Reconsideration and allowance of the pending claims in light of the remarks presented herein are respectfully requested.

Filed herewith is an eTerminal-Disclaimer.

A listing of the Claims begins on page 2 of this paper.

Remarks begin on page 7 of this paper.

A LISTING OF THE CLAIMS

1-12. (Cancelled)

13. (Previously Presented) A media measurement method comprising:

(a) receiving over a network, at one or more computers, data for a sequence of video data samples, the video data samples comprising representations of video data captured at a media monitoring device, the plurality of video data samples being submitted over the network;

(b) using the one or more computers to query an electronic database of a plurality of video data representations and corresponding content identifiers;

(c) generating a raw play stream, the raw play stream comprising a sequence of content identification results corresponding to the sequence of video data samples; wherein:

the sequence of content identification results is obtained by querying the electronic database to attempt to determine respective likely matches between respective video data samples in the sequence of video data samples and respective video data representations in the electronic database;

a content identification result of the sequence of content identification results comprises either: (i) a content identifier associated in the electronic database with a respective video data representation that is determined to be a respective likely match with a respective one of the video data samples; or (ii) an indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; and

the raw play stream includes either: at least two different content identifiers obtained from the electronic database; or at least one content identifier obtained from the electronic database and at least one indication of

the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database;

(d) scrubbing the raw play stream by analyzing sample sequence data of the raw play stream to determine whether to change a result of the sequence of content of identification results in view of a pattern of the sample sequence data of the raw play stream compared to an expected pattern of sample sequence data; and

(e) generating a clean play stream from the raw play stream by making any changes to the raw play stream that are determined to be made by the scrubbing.

14. (Previously Presented) The method of claim 13 wherein sample sequence data includes at least one of log times, content identifiers, and content offsets.

15. (Previously Presented) The method of claim 13 wherein:

scrubbing the raw play stream further comprises analyzing channel data as part of determining whether to change a result of the sequence of content of identification results.

16. (Previously Presented) The method of claim 13 wherein:

scrubbing the raw play stream further comprises using audience data as part of determining whether to change a result of the sequence of content of identification results.

17. (Previously Presented) The method of claim 13 wherein a clean play list is generated from the clean play stream.

18. (Previously Presented) The media measurement method of claim 13 wherein the plurality of video data representations include a plurality of video signatures.

19. (Previously Presented) The media measurement method of claim 13 wherein a video data representation of the plurality of video data representations includes a plurality of signal landmarks.

20. (Previously Presented) The media measurement method of claim 13 wherein a video data representation of the plurality of video data representations includes a signal usable for generating video energy corresponding to video energy captured at the media monitoring device.

21. (Previously Presented) A computer program product in a non-transitory computer readable medium comprising instructions executable by one or more processors of one or more computers, the one or more computers being coupled to a network to receive, over the network, data for a sequence of video data samples, the video data samples comprising representations of video data captured at a media monitoring device, the plurality of video data samples being submitted over the network, the instructions comprising instructions for:

(a) using the one or more computers to query an electronic database of a plurality of video data representations and corresponding content identifiers;

(b) generating a raw play stream, the raw play stream comprising a sequence of content identification results corresponding to the sequence of video data samples; wherein:

the sequence of content identification results is obtained by querying the electronic database to attempt to determine respective likely matches

between respective video data samples in the sequence of video data samples and respective video data representations in the electronic database;

a content identification result of the sequence of content identification results comprises either: (i) a content identifier associated in the electronic database with a respective video data representation that is determined to be a respective likely match with a respective one of the video data samples; or (ii) an indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; and

the raw play stream includes either: at least two different content identifiers obtained from the electronic database; or at least one content identifier obtained from the electronic database and at least one indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database;

(c) scrubbing the raw play stream by analyzing sample sequence data of the raw play stream to determine whether to change a result of the sequence of content of identification results in view of a pattern of the sample sequence data of the raw play stream compared to an expected pattern of sample sequence data; and

(d) generating a clean play stream from the raw play stream by making any changes to the raw play stream that are determined to be made by the scrubbing.

22. (Previously Presented) The computer program product of claim 21 wherein sample sequence data includes at least one of log times, content identifiers, and content offsets.

23. (Previously Presented) The computer program product of claim 21 wherein scrubbing the raw play stream further comprises analyzing channel data as part of

determining whether to change a result of the sequence of content of identification results.

24. (Previously Presented) The computer program product of claim 21 wherein scrubbing the raw play stream further comprises using audience data as part of determining whether to change a result of the sequence of content of identification results.

25. (Previously Presented) The computer program product of claim 21 wherein the computer program product further comprises instructions for generating a clean play list from the clean play stream.

26. (Previously Presented) The computer program product of claim 21 wherein the plurality of video data representations include a plurality of video signatures.

27. (Previously Presented) The computer program product of claim 21 wherein a video data representation of the plurality of video data representations includes a plurality of signal landmarks.

REMARKS

Claims 13-27 were pending and under consideration in the present application. By virtue of this response, no claims have been cancelled, added, or amended. Therefore, claims 13-27 remain pending and currently under consideration.

Amendment and cancellation of certain claims is not to be construed as a dedication to the public of any of the subject matter of the claims as previously presented. No new matter has been added. Entry of the above-mentioned amendments is respectfully requested.

Double Patenting

Claims 13-27 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 8,510,768.

Filed herewith is a Terminal Disclaimer with respect to the claims of U.S. Patent No. 8,510,768, which overcomes the above-stated nonstatutory double patenting rejections of claims 13-27.

CONCLUSION

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejection of the claims and to pass this application to issue. If it is determined that a telephone conversation would expedite the prosecution of this application, the Examiner is invited to telephone the undersigned at the number given below.

If the Patent Office determines that an extension of time and/or other relief is required and such required relief has not already been requested, Applicant hereby petitions for any such required relief including extensions of time. The Director is

hereby authorized to charge any fees which may be required by this paper to Deposit Account No. 50-4242, referencing docket no. 10004-2000105.

Dated: February 27, 2020

Respectfully submitted,

By /Lawrence Gabuzda/
Lawrence Gabuzda
Registration No. 51,711
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor
New York, New York 10010
(212) 524-6052
Attorney(s) for Applicant

Electronic Acknowledgement Receipt

EFS ID:	38711356
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Lawrence R. Gabuzda/Emily Sullenberger
Filer Authorized By:	Lawrence R. Gabuzda
Attorney Docket Number:	10004-2000105
Receipt Date:	27-FEB-2020
Filing Date:	22-OCT-2019
Time Stamp:	16:13:17
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		10004-2000105ResponsetoNFOAdated1-24-20.pdf	117434 aca337ed7a4864f5071914f548c7d9bac928fa94	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	8

Warnings:	
Information:	
Total Files Size (in bytes):	117434

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

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

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	16660615
Filing Date	22-Oct-2019
First Named Inventor	Jonathan Steuer
Attorney Docket Number	10004-2000105
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Anonymous Media Research LLC	100%

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

8510768

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

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

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

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

◉ Small Entity

○ Micro Entity

○ Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

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

Registration Number 51711

○ A sole inventor

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

○ A joint inventor; all of whom are signing this request

Signature	/Lawrence Gabuzda/
Name	Lawrence Gabuzda

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	16660615
Filing Date:	22-Oct-2019
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Filer:	Lawrence R. Gabuzda/Emily Sullenberger
Attorney Docket Number:	10004-2000105

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16660615

Filing Date: 22-Oct-2019

Applicant/Patent under Reexamination: Steuer

Electronic Terminal Disclaimer filed on February 27, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	38711654
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Lawrence R. Gabuzda/Emily Sullenberger
Filer Authorized By:	Lawrence R. Gabuzda
Attorney Docket Number:	10004-2000105
Receipt Date:	27-FEB-2020
Filing Date:	22-OCT-2019
Time Stamp:	16:18:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	$160
RAM confirmation Number	E20202QG18310566
Deposit Account	504242
Authorized User	Emily Sullenberger

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

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33369 c31992f98b4249f364b4dc76f4d3daf71fd61bfa	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30510 9ab47ebcf4f7d2495295d82e9f59e61dfb8681d0	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	63879		

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

51417 7590 03/23/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

EXAMINER
DAVIS, CHENEA

ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 03/23/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

TITLE OF INVENTION: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/23/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

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

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

51417 7590 03/23/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

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

Certificate of Mailing or Transmission

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

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

TITLE OF INVENTION: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/23/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAVIS, CHENEA	2421	705-014450

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

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

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

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

1_____
2_____
3_____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

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

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

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

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

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

51417 7590 03/23/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

EXAMINER
DAVIS, CHENEA

ART UNIT	PAPER NUMBER
2421	

DATE MAILED: 03/23/2020

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/660,615	Applicant(s) Steuer et al.	
	Examiner CHENEA DAVIS	Art Unit 2421	AIA (FITF) Status No

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

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

1. ☑ This communication is responsive to 2/27/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 13-27 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/CHENEA DAVIS/
Primary Examiner, Art Unit 2421

DETAILED ACTION

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

Terminal Disclaimer

2. The terminal disclaimer filed on 02/27/2020 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **US 8, 510, 768** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Reasons for Allowance

3. Claims 13-27 are allowed.

4. The following is an examiner's statement of reasons for allowance: claims 13-27 are allowed because the prior art fails to specifically disclose or suggest the elements/steps of:

"(a) receiving over a network, at one or more computers, data for a sequence of video data samples, the video data samples comprising representations of video data captured at a media monitoring device, the plurality of video data samples being submitted over the network; (b) using the one or more computers to query an electronic database of a plurality of video data representations and corresponding content identifiers; (c) generating a raw play stream, the raw play stream comprising a sequence of content identification results corresponding to the sequence of video data samples; wherein: the sequence of content identification results is obtained by

querying the electronic database to attempt to determine respective likely matches between respective video data samples in the sequence of video data samples and respective video data representations in the electronic database; a content identification result of the sequence of content identification results comprises either: (i) a content identifier associated in the electronic database with a respective video data representation that is determined to be a respective likely match with a respective one of the video data samples; or (ii) an indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; and the raw play stream includes either: at least two different content identifiers obtained from the electronic database; or at least one content identifier obtained from the electronic database and at least one indication of the absence of a respective likely match between a respective video data sample and a video data representation in the electronic database; (d) scrubbing the raw play stream by analyzing sample sequence data of the raw play stream to determine whether to change a result of the sequence of content of identification results in view of a pattern of the sample sequence data of the raw play stream compared to an expected pattern of sample sequence data; and (e) generating a clean play stream from the raw play stream by making any changes to the raw play stream that are determined to be made by the scrubbing", as recited by the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENEA DAVIS whose telephone number is (571)272-9524. The examiner can normally be reached on M-F: 8:00 am - 4:00 pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. 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.

/CHENEA DAVIS/
Primary Examiner, Art Unit 2421

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

CPC						
Symbol					**Type**	**Version**
G06Q	/	30	/	0246	F	2013-01-01
H04L	/	67	/	22	I	2013-01-01
H04L	/	65	/	4076	I	2013-01-01
H04L	/	65	/	605	I	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 15	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421 (Primary Examiner)	16 March 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office

Part of Paper No.: 20200316

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

INTERNATIONAL CLASSIFICATION				
CLAIMED				
G06Q	/	30	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
705	14.45

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 15	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421 (Primary Examiner)	16 March 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office

Part of Paper No.: 20200316

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10	7	19										
	2		11	8	20										
	3		12	9	21										
	4	1	13	10	22										
	5	2	14	11	23										
	6	3	15	12	24										
	7	4	16	13	25										
	8	5	17	14	26										
	9	6	18	15	27										

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 15	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421 (Primary Examiner)	16 March 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 3

U.S. Patent and Trademark Office

Part of Paper No.: 20200316

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

CPC - Searched*		
Symbol	**Date**	**Examiner**
g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33	01/20/2020	CD
g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33	03/16/2020	CD

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
Updated EAST search results included	03/16/2020	CD
Updated Inventor search included - see search results printout	03/16/2020	CD
Updated class search (725), cpc search (see above) - text search only, see search results printout	03/16/2020	CD

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	see search results printout	03/16/2020	CD

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/660,615	Steuer et al.
	Examiner	**Art Unit**
	CHENEA DAVIS	2421

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

CLAIMS

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

CLAIM		DATE								
Final	Original	01/20/2020	03/16/2020							
	1	-	-							
	2	-	-							
	3	-	-							
	4	-	-							
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	6	-	-							
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	10	-	-							
	11	-	-							
	12	-	-							
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2	14	✓	=							
3	15	✓	=							
4	16	✓	=							
5	17	✓	=							
6	18	✓	=							
7	19	✓	=							
8	20	✓	=							
9	21	✓	=							
10	22	✓	=							
11	23	✓	=							
12	24	✓	=							
13	25	✓	=							
14	26	✓	=							
15	27	✓	=							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	151734	(g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33).cpc. "725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:00
L2	2226	(sequen$4 near4 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:00
L3	507	L2 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:00
L4	7	L3 and L1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:00
L5	357	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:01
L6	7	L5 and (sampl$3 with sequen$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:01
L7	7	(use uses using utiliz$6) with (sequential near2 order$3) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:01
L8	118	(sequential near2 order$3) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:01
L9	11	((sequential near2 order$3) near3 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:01
L10	2	(use uses using utiliz$6) with ((sequential near2 order$3) near3	US-PGPUB; USPAT;	OR	OFF	2020/03/16 12:01

		(identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	EPO			
L11	24	(L7 L8 L9 L10) and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:01
L12	31	((("STEUER") near3 ("Jonathan")) OR (("OTTO") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/03/16 12:01
L13	5	((("ANONYMOUS") near3 ("MEDIA") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	USPAT	OR	ON	2020/03/16 12:01
L14	0	(L12 L13) and L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:01
L15	28	L5 and L1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/03/16 12:01
L19	1582470	8, "510", "768" .pn.	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:13
L20	1	"8510768".pn.	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/16 12:14
S1	91	("20020161741" | "4677466" | "20020083060" | "7444353" | "20020038456" | "6990453" | "20040224638" | "20020059577" | "20040122679" | "3919479" | "7483975" | "20030009469" | "20040001161" | "20020072982" | "7038619" | "4697209" | "20020072982" | "5095382" | "20050086682" | "5594934" | "5778137" | "20060059277" | "20020010919" | "5945988" | "6513161" | "20020010919" | "5758257" | "5512933" | "20070143777" | "5437050" | "7779415" | "20040048637").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:25
S2	68	(arbotron nielsen).as. and paus$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:36

S3	7	S2 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S4	79	(arbitron nielsen).as. and paus$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S5	12	S4 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:37
S6	2	10/483825.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 15:50
S7	2	"6184918".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 20:37
S8	17	("20020072982" | "20050086682" | "20060059277" | "7038619" | "7444353" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/10 21:02
S9	13275	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:39
S10	333	S9 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:39
S11	63038	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2016/07/11 01:39

			DERWENT; IBM_TDB			
S12	203	S10 AND ((H04N21/812 OR H04N21/44008 OR H04N21/4394 OR H04N21/4126 OR H04N21/23 OR H04N21/258 OR H04N21/25866 OR H04N21/4227 OR H04N21/4334 OR H04N21/47214 OR H04N21/478 OR H04N21/4788 OR H04N21/632 OR H04N21/6543 OR H04N21/8133 OR H04N21/25891 OR H04N21/44222 OR H04N21/2407 OR H04N21/2668 OR H04N21/4532 OR H04N21/4622 OR H04N21/84 OR H04N21/6175 OR H04N21/6582 OR H04N21/2393 OR H04N21/2541 OR H04N21/25883 OR H04N21/41407 OR H04N21/4627 OR H04N21/47205 OR H04N21/4725 OR H04N21/4821 OR H04N21/8586 OR H04N21/23424 OR H04N21/23617 OR H04N21/2387 OR H04N21/251 OR H04N21/2543 OR H04N21/25875 OR H04N21/26266 OR H04N21/2665 OR H04N21/4314 OR H04N21/4316 OR H04N21/44 OR H04N21/44204 OR H04N21/4756 OR H04N21/4786 OR H04N21/6125 OR H04N21/64322 OR H04N21/8358 OR H04N21/858 OR H04N21/26258 OR H04N21/42203 OR H04N21/442 OR H04N21/44218 OR H04N21/8405 OR H04N21/435 OR H04N21/44213 OR H04N21/4826 OR H04N21/6587 OR H04N21/8352 OR H04N21/2187 OR H04N21/23614 OR H04N21/25841 OR H04N21/26603 OR H04N21/4122 OR H04N21/42204 OR H04N21/4223 OR H04N21/4307 OR H04N21/431 OR H04N21/43615 OR H04N21/4367 OR H04N21/437 OR H04N21/458 OR H04N21/466 OR H04N21/4668 OR H04N21/472 OR H04N21/4828 OR H04N21/80 OR H04N21/8456 OR H04N5/60 OR H04N7/17318 OR H04N13/0062 OR H04N13/0239 OR H04N13/044 OR H04N13/0495 OR H04N2005/2255 OR H04N21/23418 OR H04N21/23439 OR H04N21/2347 OR H04N21/24 OR H04N21/25435 OR H04N21/262 OR H04N21/26613 OR H04N21/42201 OR H04N21/42684 OR H04N21/4335 OR H04N21/4398 OR H04N21/4405 OR H04N21/441 OR H04N21/44209 OR H04N21/4424 OR H04N21/45 OR H04N21/4542 OR H04N21/4623 OR H04N21/4667 OR H04N21/47 OR H04N21/47217 OR H04N21/4722 OR H04N21/4755 OR H04N21/4758 OR H04N21/4784 OR H04N21/4825 OR H04N21/485 OR H04N21/6371 OR H04N21/6581 OR H04N21/8126 OR H04N21/8355 OR H04N21/8455 OR H04N21/854 OR H04N21/8543 OR H04N5/225 OR H04N5/23206 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40

		H04N5/32 OR H04N5/3205 OR H04N5/321 OR H04N5/77 OR H04N5/783 OR H04N5/93 OR H04N7/17327 OR H04N7/185).CPC.)				
S13	25328	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40
S14	47	S10 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40
S15	67	S10 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41
S16	44	S10 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41
S17	32	S16 AND ((H04N21/2347 OR H04N21/2541 OR H04N21/4143 OR H04N21/4405 OR H04N21/4627 OR H04N21/25875 OR H04N21/8355 OR H04N21/235 OR H04N21/2362 OR H04N21/2543 OR H04N21/2547 OR H04N21/4345 OR H04N21/435 OR H04N21/44204 OR H04N21/443 OR H04N21/4753 OR H04N21/6581 OR H04N21/8166 OR H04N21/835 OR H04N21/83555 OR H04N21/8358 OR H04N7/162 OR H04N7/17309 OR H04N21/23476 OR H04N2005/91364 OR H04N21/42646 OR H04N21/4325 OR H04N5/913 OR H04N7/163 OR H04N5/765 OR H04N5/77 OR H04N5/775 OR H04N5/781 OR H04N5/85 OR H04N9/8042 OR H04N19/107 OR H04N19/124 OR H04N19/14 OR H04N19/142 OR H04N19/149 OR H04N19/15 OR H04N19/152 OR H04N19/176 OR H04N19/179 OR H04N19/503 OR H04N19/61 OR H04N21/26613 OR H04N21/4623 OR H04N19/42 OR H04N19/87 OR H04N21/25816 OR H04N21/4316 OR H04N21/454 OR H04N21/47 OR H04N21/47214 OR H04N21/6334 OR H04N5/76).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41
S18	16	(signal$3 near2 user$1 near2	US-PGPUB;	OR	OFF	2016/07/11

		expos$4).clm.	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			01:49
S19	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/11 01:49
S20	24	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/07/11 01:49
S21	24	S19 S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:49
S22	2	S18 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:49
S23	12	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:13
S24	2	("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:14
S25	0	wo-2003091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S26	0	wo-2003/091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S27	0	wo-03/091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23

S28	3	wo-03091990-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S29	3	10/978313.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 13:23
S30	32536	(h04l65/60 h04l67/22 g06q30/0246).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:13
S31	64	S30 and ((media content$1) near offset$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:14
S32	0	S31 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:14
S33	17	(signal$3 near2 user$1 near2 expos$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:17
S34	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/01 14:17
S35	24	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2017/04/01 14:17
S36	24	S34 S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:17
S37	2	S33 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/04/01 14:17

			IBM_TDB			
S38	5	S36 and (offset$1.clm.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S39	64525	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S40	1	S31 and S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/01 14:18
S41	21	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 16:26
S42	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:07
S43	2	"20080154401".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:11
S44	1076416	(determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:15
S45	297	(determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1) near3 (sequen$6 near3 (sampl$4 clip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:16
S46	139	@ad<"20050526" and S45	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/03/29 17:16

			EPO; JPO; DERWENT; IBM_TDB			
S47	0	S46 and ((media video$1 content$1 audio$1 music$1 song$1) near recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S48	0	S46 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S49	1	S46 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near2 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:17
S50	1740	((determin$6 detect$4 deduc$5) near3 (channel$1 sourc$3 station$1)) with ((order$3 sequen$6) near2 (sampl$4 clip$4 music$1 song$1 video$1 content$1 media$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S51	566	@ad<"20050526" and S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S52	44	S51 and ((media video$1 content$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:19
S53	105850	((media video$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:22
S54	4361	S53 and ((Sequen$6 order$3) near (sampl$4 clip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 17:23
S55	11	("4843562" "5210820" "20020083060").pn.	US-PGPUB; USPAT;	OR	OFF	2018/03/29 17:30

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S56	105850	((media video$1 audio$1 music$1 song$1 sampl$3) near3 recogni$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:52
S57	20459	S56 and ((Sequen$6 order$3) near3 (music audio video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:52
S58	3434	S57 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:53
S59	610	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with ((Sequen$6 order$3) near3 (music audio video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:54
S60	174	S59 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:55
S61	12	S56 and S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:55
S62	9624	S56 and ((Sequen$6) near3 (music video$1 media song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:57
S63	1600	S62 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:57

S64	315	S63 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:57
S65	315	S56 and S64	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S66	154	S65 and offset$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S67	154	S65 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:58
S68	94	S67 and (music song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 21:59
S69	987	S56 and ((Sequen$6) near3 (music song$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:00
S70	216	S69 and ((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:00
S71	216	S56 and S70	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:01
S72	83	S71 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/03/29 22:01

			DERWENT; IBM_TDB			
S73	58	S72 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:01
S74	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:04
S75	0	13/914870.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:07
S76	188	S71 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:11
S77	88	S76 and offset$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:12
S78	30	S77 not S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:12
S79	123	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with based with ((music video$1 media song$1 content$1) near2 (sequenc$3 order$3 offset$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:15
S80	73	S79 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:16
S81	2	"7986913".pn.	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/03/29 22:22

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S82	2	"20070143777".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/29 22:22
S83	1	14/175811.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:06
S84	1	S83 and (expos$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:06
S85	1	15/025137.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:37
S86	1	S85 and (monitor$3 with cloud$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:37
S87	0	S85 and (monitor$3 with cloud$1 with sun)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 08:39
S88	0	"200600592778".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 09:53
S89	3	"20060059277".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/03/30 09:53
S90	2	11/216543.app.	US-PGPUB;	OR	OFF	2018/03/30

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			09:53
S91	23	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "20070143777" | "7779415").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/23 09:11
S92	26	("20090244402" | "20100031288" | "20110209177" | "20110289536" | "20140059628" | "20150020091" | "20150140896" | "20150312636" | "20170188201" | "7046161").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/23 12:44
S93	18	(signal$3 near2 user$1 near2 expos$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S94	12	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/10/30 18:31
S95	25	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/10/30 18:31
S96	25	S94 S95	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S97	2	S93 and S96	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S98	17934	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S99	481	S98 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31

S100	43966	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S101	105	S99 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S102	128	((deduc$3 infer$4 detect$4 determin$6) near2 (station$1 source$1 channel$1 album$1)) with based with ((music video$1 media song$1 content$1) near2 (sequenc$3 order$3 offset$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S103	74	S102 and (@ad<"20140207")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S104	105	S99 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:31
S105	0	(content near offset$1) and (expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:33
S106	0	S96 and (expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:33
S107	0	(expos$3 near3 tim$3 near3 ((another other different) near3 broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:34
S108	1870	((expos$3 view$3 watch$3) with tim$3 with ((another other different) with broadcast$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2018/10/30 18:34

			DERWENT; IBM_TDB			
S109	0	S96 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S110	0	h04n/21.$6.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S111	416627	h04n21/$6.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:35
S112	69510	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S113	470202	S111 S112 S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S114	471036	S108 anbd S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S115	1312	S108 and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:36
S116	0	S115 and (tim$3 near3 position$1 near3 within near (media content$1 video$1 program$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/10/30 18:37
S117	1	S115 and (tim$3 near3 position$1 near3 within near3 (media content$1 video$1 program$4))	US-PGPUB; USPAT; USOCR;	OR	OFF	2018/10/30 18:37

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S118	9	("7444353" | "20080154401" | "7483975" | "20060059277" | "7038619" | "20020072982" | "20050086682" | "20070143777" | "7779415").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:28
S119	1	"20020083060".pn.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:37
S120	4	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 09:41
S121	135	("20020010919" | "20020038456" | "20020059577" | "20020072982" | "20020083060" | "20020161741" | "20030009469" | "20030135623" | "20030177488" | "20040001161" | "20040034441" | "20040048637" | "20040055445" | "20040122679" | "20040224638" | "20050086682" | "20060059277" | "20070143777" | "20080154401" | "3919479" | "4677466" | "4697209" | "5095382" | "5210366" | "5404161" | "5436653" | "5437050" | "5512933" | "5594934" | "5758257" | "5844938" | "5945988" | "6513161" | "6990453" | "7038619" | "7444353" | "7483975" | "7634787" | "7779415" | "8131389" | "8296791" | "8510768" | "8677389" | "8756622").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 09:52
S122	4	steuer.in. and (play$1altering).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:21
S123	1	16/403204.app. and (offset$1 with (tim$3 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:25
S124	1	16/403204.app. and (offset$1 with (tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:26
S125	1	16/403204.app. and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2019/09/03 10:26

			IBM_TDB			
S126	0	11/139330.app. and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:27
S127	1	11/139330.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 10:27
S128	2	steuer.in. and (offset$1 with (tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:12
S129	2	steuer.in. and (offset$1 and (timecode$1 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:12
S130	19908	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S131	553	S130 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S132	46928	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S133	118	S131 and S132	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S134	13	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 11:13

S135	26	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/03 11:13
S136	26	S134 S135	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:13
S137	2	S136 and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/09/03 11:14
S138	4	("20020038456" | "20020083060" | "5512933" | "7483975").PN.	US-PGPUB; USPAT; EPO	OR	ON	2019/09/03 11:31
S139	20369	(viewer$1 user$1 audience$1) with expos$4 with (media content$1 video$1 music$1 audio song$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S140	569	S139 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S141	48085	(G06Q30/0246 H04L67/22 H04L65/60).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S142	123	S140 and S141	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S143	13	((Jonathan) near2 (Steuer)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/11/12 11:19
S144	26	((Christopher) near2 (Otto)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/11/12 11:19
S145	26	S143 S144	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2019/11/12 11:19

			IBM_TDB			
S146	2	S145 and ((tim$3 near code$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:19
S147	569	S139 and (detect$4 with (paus$3 rewind$3 skip$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:20
S148	2	steuer.in. and (offset$1 and (timecode$1 (tim$3 near code$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/12 11:20
S150	2	14/044233.app.	US-PGPUB; USPAT; EPO	OR	OFF	2019/11/12 12:59
S152	345	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
S153	6	S152 and (sampl$3 with sequen$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
S154	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:19
S155	149762	(g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33).cpc. "725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:22
S156	27	S152 and S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:22

S157	27	((("STEUER") near3 ("Jonathan")) OR (("OTTO") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/01/20 12:22
S158	4	((("ANONYMOUS") near3 ("MEDIA") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	USPAT	OR	ON	2020/01/20 12:22
S159	0	(S157 S158) and S152	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:23
S160	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4)) and (sampl$3 with sequen$6)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:23
S161	13	(S157 S158) and S160	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:24
S162	401	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4))	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:24
S163	401	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 play$1stream$1 playlist$4))	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 12:24
S164	13	(S157 S158) and S163	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
S165	54	S163 and S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
S166	6	S165 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 12:25
S167	1	(sequential near2 order$3).clm. and S157	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:32
S168	5	(use uses using utiliz$6) with	US-PGPUB;	OR	OFF	2020/01/20

		(sequential near2 order$3) with (determin$6 identif$8) near3 (channel$1 sourc$3)	USPAT; EPO			13:51
S169	114	(sequential near2 order$3) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:52
S170	6	(S168 S169) and S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:52
S171	2	S170 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:52
S172	10	((sequential near2 order$3) near3 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:53
S173	1	(use uses using utiliz$6) with ((sequential near2 order$3) near3 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:54
S174	10	(S172 S173)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:54
S175	24	(S168 S169 S172 S173) and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:54
S176	1014	((sequen$4near2 order$3) near3 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:55
S177	103	((sequen$4 near2 order$3) near3 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:55
S178	2203	(sequen$4 near4 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:56
S179	507	S178 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:56
S180	7	S179 and S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:56

S181	369	((sequen$4 near4 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)).clm.	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:57
S182	2	12/283332.app.	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 14:18
S183	2	12/283353.app.	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 14:45

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	4	((determin$6 identif$8) near4 ((next subsequent following) near3 (segment$1 sample$1)) and (tim$3 near2 length$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/03/16 12:01
L17	0	(IDENTIF$8 near3 ((next subsequent following) near3 (segment$1 sample$1)) with (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/03/16 12:01
L18	1	"10572896".pn.	US-PGPUB; USPAT	OR	OFF	2020/03/16 12:11
S149	2	((COMPAR$5 with (captur$4 near2 tim$3) with offset$1) and (deduc$5 with play$1alter$3)).clm.	US-PGPUB; USPAT	OR	OFF	2019/11/12 11:22
S151	2	14/"Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/11/12 12:58
S184	22	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:20
S185	0	((clean$3 fix$4 scrub$4) near4 (playstream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:20
S186	6	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 paly$1stream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:21
S187	74551	(g06q30/0246 h04l65/4076 h04l65/605 h04l67/22 h04h60/37 h04h60/33).cpc. "725".clas.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:22
S188	6	((clean$3 fix$4 scrub$4) near4 (playstream$1 (play adj stream$1) (play adj list$5) play$1list$4 play$1stream$1 playlist$4)).clm. and (sampl$3 with sequen$6).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 12:25
S189	10683	(sequential near2 order$3).clm. and "10"	US-PGPUB; USPAT	OR	OFF	2020/01/20 13:32
S190	369	((sequen$4 near4 (identifier$1 title$1)) with (determin$6 identif$8) near3 (channel$1 sourc$3)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 13:57
S191	303	(sequen$4 near3 (identifier$1 title$1)) with ((determin$6 identif$8) near3 (channel$1	US-PGPUB;	OR	OFF	2020/01/20 14:02

		sourc$3)).clm.	USPAT			
S192	303	((sequen$4 near3 (identifier$1 title$1)) with ((determin$6 identif$8) near3 (channel$1 sourc$3))).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 14:02
S193	11	((use uses using utiliz$6) near4 ((sequen$4 near3 (identifier$1 title$1)) with ((determin$6 identif$8) near3 (channel$1 sourc$3)))).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 14:03
S194	1	"20170374668".pn.	US-PGPUB; USPAT	OR	OFF	2020/01/20 14:06
S195	2	12/"Term Removed"	US-PGPUB; USPAT	OR	OFF	2020/01/20 14:18
S196	0	(IDENTIF$8 near3 ((next subsequent following) near3 (segemtn$1 sample$1)) with (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:00
S197	0	(IDENTIF$8 near3 ((next subsequent following) near3 (segment$1 sample$1)) with (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:00
S198	0	(IDENTIF$8 near4 ((next subsequent following) near3 (segment$1 sample$1)) with (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:01
S199	0	(IDENTIF$8 near4 ((next subsequent following) near3 (segment$1 sample$1)) same (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:01
S200	0	((IDENTIF$8 near4 ((next subsequent following) near3 (segment$1 sample$1)) same (tim$3 near2 lenght$1 near2 window$1))).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:02
S201	0	(identif$8 near4 ((next subsequent following) near3 (segment$1 sample$1)) and (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:02
S202	0	((determin$6 identif$8) near4 ((next subsequent following) near3 (segment$1 sample$1)) and (tim$3 near2 lenght$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:03
S203	3	((determin$6 identif$8) near4 ((next subsequent following) near3 (segment$1 sample$1)) and (tim$3 near2 length$1 near2 window$1)).clm.	US-PGPUB; USPAT	OR	OFF	2020/01/20 15:03

3/16/2020 12:18:26 PM
C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 811 RCE.wsp

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

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

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

51417 7590 03/23/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

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

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

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

TITLE OF INVENTION: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$500	$0.00	$0.00	$500	06/23/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAVIS, CHENEA	2421	705-014450

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

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

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

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

1 Mauriel Kapouytian Woods LLP
2 Michael Mauriel
3

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Anonymous Media Research LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): New York, NY

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

4a. Fees submitted: ☒ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

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

☒ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-4242

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /Michael Mauriel/ Date June 12, 2020

Typed or printed name Michael Mauriel Registration No. 44,226

Electronic Patent Application Fee Transmittal

Application Number:	16660615
Filing Date:	22-Oct-2019
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Filer:	Michael John Mauriel/Victoria Wilson
Attorney Docket Number:	10004-2000105

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**500**

Electronic Acknowledgement Receipt

EFS ID:	39706433
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Michael John Mauriel/Victoria Wilson
Filer Authorized By:	Michael John Mauriel
Attorney Docket Number:	10004-2000105
Receipt Date:	12-JUN-2020
Filing Date:	22-OCT-2019
Time Stamp:	17:20:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	$500
RAM confirmation Number	E20206BH25359258
Deposit Account	504242
Authorized User	Victoria Wilson

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

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	100042000105_IssueFeeTransSIGNED.pdf	492050 9752ca44e6cf07c4f12c4c29d753edc2ea0a6d48	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30014 98ef6465cb7b7b613a0fbb8c6877d51196ab22b8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	522064		

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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	07/21/2020	10719848	10004-2000105	5870

51417 7590 06/30/2020

Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

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

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

Jonathan S. Steuer, New York, NY;
Anonymous Media Research LLC, New York, NY;
Christopher W. Otto, San Francisco, CA;

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

IR103 (Rev. 10/09)

Electronic Patent Application Fee Transmittal

Application Number:	16660615
Filing Date:	22-Oct-2019
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Filer:	Michael John Mauriel/Victoria Wilson
Attorney Docket Number:	10004-2000105

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	2811	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Electronic Acknowledgement Receipt

EFS ID:	43328855
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Michael John Mauriel/Victoria Wilson
Filer Authorized By:	Michael John Mauriel
Attorney Docket Number:	10004-2000105
Receipt Date:	23-JUL-2021
Filing Date:	22-OCT-2019
Time Stamp:	19:54:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	$160
RAM confirmation Number	E20217MJ55204035
Deposit Account	504242
Authorized User	Victoria Wilson

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	100042000105_CorrectionRequest.pdf	457193 4d2cede4c5b8976b0b3bd146f20d69c1e2124ee9	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	100042000105_CertificateofCorrection.pdf	544899 c9af81fc11a37220ec111145046d7031010d191b	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30234 b9802420e3e1fb7fed040708691fae1028fbaf22	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1032326		

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

<u>New Applications Under 35 U.S.C. 111</u>
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<u>National Stage of an International Application under 35 U.S.C. 371</u>
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<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Attorney Docket No.: 10004-2000105
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Jonathan S. Steuer et al.

Application No.: 16/660,615

Patent Number: 10,719,848 B2

Title: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

Issue Date: July 21, 2020

REQUEST FOR CORRECTION TO PATENT

Commissioner for Patents
Office of Data Management Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Applicant hereby certifies that an error appears in the printed patent. Specifically, in column 15, line 53, after the word "content," the word "of" at the end of line 53 should be deleted. The prosecution history indicates that this minor error is of a clearly typographical nature made by the Applicant's attorney of record. This correction to claim 1 does not constitute new matter and does not require examination. Applicant respectfully request that a Certificate of Correction be issued as indicated in the attached.

Dated: July 23, 2021

Respectfully submitted,

By: /Michael Mauriel/ Reg. No. 44,226

Michael Mauriel
Registration No. 44,226
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor
New York, New York 10010
(212) 532-2527
Attorney(s) for Applicant

PTO/SB/44 (09-07)
Approved for use through 03/31/2023. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,719,848

APPLICATION NO.: 16/660,615

ISSUE DATE : July 21, 2020

INVENTOR(S) : Jonathan S. Steuer; Christopher Otto

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

Column 15, line 53, after "content", delete "of" at the end of the line.

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Michael Mauriel
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor, New York, New York 10010

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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

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

CERTIFICATE OF CORRECTION

PATENT NO. : 10,719,848 B2
APPLICATION NO. : 16/660615
DATED : July 21, 2020
INVENTOR(S) : Jonathan S. Steuer and Christopher Otto

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

In the Claims

Column 15, Line 53, after "content", delete "of" at the end of the line.

Signed and Sealed this
Seventeenth Day of August, 2021

Drew Hirshfeld
Performing the Functions and Duties of the
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

PTO/SB/44 (09-07)
Approved for use through 03/31/2023. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 10,719,848

APPLICATION NO.: 16/660,615

ISSUE DATE : July 21, 2020

INVENTOR(S) : Jonathan S. Steuer; Christopher W. Otto

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

Column 15, line 53, after "content", delete "of".
Column 15, line 66, after "content", delete "of".
Column 16, line 4, after "content", delete "of".
Column 16, line 61, after "content", delete "of".
Column 17, line 7, after "content", delete "of".
Column 17, line 11 after "content", delete "of".

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Michael Mauriel
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor, New York, New York 10010

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Attorney Docket No.: 10004-2000105
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Jonathan S. Steuer et al.

Application No.: 16/660,615

Patent Number: 10,719,848 B2

Title: MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

Issue Date: July 21, 2020

REQUEST FOR CORRECTION TO PATENT

Commissioner for Patents
Office of Data Management Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Applicant hereby certifies that an error appears in the printed patent. Specifically, the following corrections are requested:

- In Column 15, at line 53, after the word "content", delete the word "of".
- In Column 15, at line 66, after the word "content", delete the word "of".
- In Column 16, at line 4, after the word "content", delete the word "of".
- In Column 16, at line 61, after the word "content", delete the word "of".
- In Column 17, at line 7, after the word "content", delete the word "of".
- In Column 17, at line 11 after the word "content", delete the word "of".

These errors are clearly of a typographical nature. These corrections to the claims do not constitute new matter and do not require examination. Applicant

respectfully request that a Certificate of Correction be issued as indicated in the attached.

Dated: February 10, 2023

Respectfully submitted,

By: /Michael Mauriel/ Reg. No. 44,226

Michael Mauriel
Registration No. 44,226
Mauriel Kapouytian Woods LLP
15 W. 26th Street, 7th Floor
New York, New York 10010
(212) 532-2527
Attorney(s) for Applicant

Electronic Patent Application Fee Transmittal

Application Number:	16660615
Filing Date:	22-Oct-2019
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Filer:	Michael John Mauriel/Rucha Ekbote
Attorney Docket Number:	10004-2000105

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	2811	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Electronic Acknowledgement Receipt

EFS ID:	47518731
Application Number:	16660615
International Application Number:	
Confirmation Number:	5870
Title of Invention:	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
First Named Inventor/Applicant Name:	Jonathan S. Steuer
Customer Number:	51417
Filer:	Michael John Mauriel/Rucha Ekbote
Filer Authorized By:	Michael John Mauriel
Attorney Docket Number:	10004-2000105
Receipt Date:	10-FEB-2023
Filing Date:	22-OCT-2019
Time Stamp:	22:50:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	$160
RAM confirmation Number	E202320M50436711
Deposit Account	504242
Authorized User	Rucha Ekbote

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

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	10004-2000105_CertificationofCorrectionForm.pdf	548271 66b94cecdbc8f3511231e6714de6c118d9fda221	no	2
Warnings:					
Information:					
2	Transmittal Letter	10004-2000105_CoCRequestLetter.pdf	155689 141c12b78c402fb4517b2a164ba83cdd9097f720	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	37768 15debab7681a4ea6bbdf9532abb9edb57594fc83	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	741728		

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<u>New Applications Under 35 U.S.C. 111</u>
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<u>New International Application Filed with the USPTO as a Receiving Office</u>
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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,615	10/22/2019	Jonathan S. Steuer	10004-2000105	5870

51417 7590 03/13/2023
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

EXAMINER
DAVIS, CHENEA

ART UNIT	PAPER NUMBER
2421	

NOTIFICATION DATE	DELIVERY MODE
03/13/2023	ELECTRONIC

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

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

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

docket@mkwllp.com

PTOL-90A (Rev. 04/07)

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 10719848
Issue Date: 07/21/2020
Appl. No.: 16/660,615
Filed: 10/22/2019

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 10 February 2023.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☑ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/NATHAN J FLYNN/
Supervisory Patent Examiner, Art Unit 2421
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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 10,719,848 B2
APPLICATION NO. : 16/660615
DATED : July 21, 2020
INVENTOR(S) : Steuer et al.

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

In the Claims

Column 15, Line 66, after “content”, delete “of”.
Column 16, Line 4, after “content”, delete “of”.
Column 16, Line 61, after “content”, delete “of”.
Column 17, Line 7, after “content”, delete “of”.
Column 17, Line 11, after “content”, delete “of”.

Signed and Sealed this
Twenty-eighth Day of March, 2023

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office