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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.
16/660,633	03/30/2021	10963911	10004-2000107	7825

51417

7590

03/10/2021

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)

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 12/03/2020
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.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825

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	\$600	\$0.00	\$0.00	\$600	03/03/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAVIS, CHENEA	2421	725-019000

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

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

Anonymous Media Research LLC

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 February 26, 2021

Typed or printed name Michael Mauriel

Registration No. 44,226

Electronic Patent Application Fee Transmittal				
Application Number:		16660633		
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:		10004-2000107		
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	600	600

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				600

Electronic Acknowledgement Receipt	
EFS ID:	42042734
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	26-FEB-2021
Filing Date:	22-OCT-2019
Time Stamp:	20:04:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	\$ 600
RAM confirmation Number	E20212PK04361528
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	Issue Fee Payment (PTO-85B)	100042000107_IFTrans.pdf	514785	no	1
			6400c4217e6cee2f22dd6652e711d454ac9d77d		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30266	no	2
			e9a82039a3be649306532a4a1104fb35121d6b6b		
Warnings:					
Information:					
Total Files Size (in bytes):			545051		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

51417 7590 12/03/2020
Mauriel Kapouytian Woods LLP
15 W. 26th Street
7th Floor
New York, NY 10010

EXAMINER

DAVIS, CHENEA

ART UNIT

PAPER NUMBER

2421

DATE MAILED: 12/03/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825

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	\$600	\$0.00	\$0.00	\$600	03/03/2021

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.

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Commissioner for Patents
P.O. Box 1450
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By fax, send to: (571)-273-2885

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51417 7590 12/03/2020
Mauriel Kapouytian Woods LLP
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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825

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

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nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	03/03/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
DAVIS, CHENEA	2421	725-019000

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.**

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

1 _____

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

2 _____

3 _____

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

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(A) NAME OF ASSIGNEE

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

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

4a. 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.

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825
51417	7590	12/03/2020	EXAMINER	
Mauriel Kapouytian Woods LLP			DAVIS, CHENEA	
15 W. 26th Street			ART UNIT	
7th Floor			PAPER NUMBER	
New York, NY 10010			2421	

DATE MAILED: 12/03/2020

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. 16/660,633	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 11/10/20.
☐ 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 13-29. 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	
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DETAILED ACTION

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

Allowable Subject Matter

2. Claims 13-29 are allowed.
3. The following is an examiner's statement of reasons for allowance: claims 13-29 are allowed because the prior art fails to specifically disclose or suggest the elements/steps of
“receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and determining, by the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt by the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein the time length window of the next sample is changed relative to a time length window of the first prior sample based on the attempt to identify the first prior sample indicating a result that is different than a result of an attempt to identify a second prior sample;
submitting, by the one or more computers, the determined next sample for attempted content identification; and
generating, by the one or more computers, a play stream of content identifications based on results of attempts to identify a series of samples comprising the determined next sample”, and similar limitations as recited by the independent claims.

4. 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.

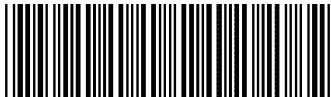
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <https://ppair-my.uspto.gov/pair/PrivatePair>. 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

Application/Control Number: 16/660,633
Art Unit: 2421

Page 4

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. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421 (Primary Examiner)	25 November 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6

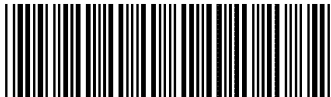
Issue Classification 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 2421

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06Q		30	 02
NON-CLAIMED			
			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
725	19

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	25 November 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6

<i>Issue Classification</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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	16	28								
	2		11	8	20	17	29								
	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: 17	
/CHENEA DAVIS/ Primary Examiner, Art Unit 2421 (Primary Examiner) _____ (Date) _____		25 November 2020 O.G. Print Claim(s) 1	O.G. Print Figure 6

<i>Index of Claims</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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	08/01/2020	11/25/2020						
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	2	-	-	-						
	3	-	-	-						
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	5	-	-	-						
	6	-	-	-						
	7	-	-	-						
	8	-	-	-						
	9	-	-	-						
	10	-	-	-						
	11	-	-	-						
	12	-	-	-						
1	13	✓	✓	=						
2	14	✓	✓	=						
3	15	✓	✓	=						
4	16	✓	✓	=						
5	17	✓	✓	=						
6	18	✓	✓	=						
7	19	✓	✓	=						
8	20	✓	✓	=						
9	21	✓	✓	=						
10	22	✓	✓	=						
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12	24	✓	✓	=						
13	25	✓	✓	=						
14	26	✓	✓	=						
15	27	✓	✓	=						
16	28	✓	✓	=						
17	29	✓	✓	=						

<i>Search Notes</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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 h0l67/22 h04h60/37 h04h60/33	08/01/2020	CD
(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33	11/25/2020	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	11/25/2020	CD
Updated Inventor search included - see search results printout	11/25/2020	CD
Updated class search (725, 455), cpc search (see above) - text search only, see search results printout	11/25/2020	CD

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	
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<i>Search Notes</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 2421

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	see search results printout	11/25/2020	CD

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	48,724	(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/11/25 09:42
L2	59,297	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:42
L3	160	L1 and L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:42
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L6	13	(adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2 earlier) near3 (sample\$1 identification\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:42
L7	2	@ad<"20040527" and L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:42

L8	33	((("STEUER") near3 ("Jonathan")) OR ("OTTO") near3 ("Christopher"))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/11/25 09:43
L9	19	L8 and (adjust\$3 with window\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:43
L10	243	(adapt\$4 with (sampl\$3 near2 width\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:43
L11	43,682	((adjust\$4 adjustment\$1 adapt\$4) with (sampl\$3 near4 (tim\$3 length\$1 window\$1 width\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:45
L12	92,296	1 11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:45
L13	12,238	2 and 12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:45
L14	453,037	"725".clas. "455".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:46
L15	5,969	14 and 12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:46
L16	17,986	13 15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:46
L17	2,132	16 and ((content media video audio) near2 (recogni\$4 identif\$8))	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2020/11/25 09:47

			EPO; JPO; DERWENT			
L18	26	17 and ((play\$1list\$4 play\$1stream\$1 (play near stream\$1) (play near2 list\$4)) near3 result\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:48
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L20	13	@ad<"20040527" and 19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:49
L21	26,051	@ad<"20040527" and (2 11)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:50
L22	742	21 and (1 14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:51
L23	5	22 and ((play\$1list\$4 play\$1stream\$1 (play near stream\$1) (play near2 list\$4) list\$4) near3 result\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:51
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L25	136,193	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 with (width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:52
L26	191,106	24 25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:54

L27	2,039	26 and ((play\$1list\$4 play\$1stream\$1 (play near stream\$1) (play near2 list\$4) list\$4) near3 result\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:54
L28	434	@ad<"20040527" and 27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:55
L29	14	28 and (1 14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:55
L30	321,106	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 with (tim\$3 width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:56
L31	327,174	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 with (tim\$3 width\$1 length\$1 duration interval\$1 period\$1 window\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:57
L32	84,636	@ad<"20040527" and 31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:58
L33	1,687	32 and (1 14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 09:59
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L35	1	11/139330.app. and 31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 10:07

L36	3,813	31 and ((play\$1list\$4 play\$1stream\$1 (play near stream\$1) (play near2 list\$4) list\$4) near3 result\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/11/25 10:07
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EAST Search History (Interference)

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L40	12	38 and 39	US-PGPUB; USPAT	OR	OFF	2020/11/25 10:13

11/25/2020 10:18:14 AM

C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 353-3.wsp



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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825

51417	7590	11/10/2020
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
11/10/2020	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

<i>Applicant-Initiated Interview Summary</i>	Application No. 16/660,633	Applicant(s) Steuer et al.		
	Examiner CHENEA DAVIS	Art Unit 2421	AIA (First Inventor to File) Status No	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
CHENEA DAVIS	Primary Examiner	Telephonic
Michael Mauriel	Attorney of Record	

Date of Interview: 05 November 2020

Issues Discussed:

Proposed Amendment(s)

Applicants' proposed amendments were discussed to overcome the rejections of record. An agreement was reached that the amendments would overcome the rejections of record upon formal submission on the record.

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	
Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04 Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing	

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

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

From: Michael Mauriel
To: Smith, Chenea
Cc: Victoria Wilson
Subject: US Application No. 16/660,633 Attny Docket 10004-2000107
Date: Thursday, November 5, 2020 12:59:12 AM

Dear Examiner Davis:

Following our voice mail exchange, I would like to discuss with you the following potential amendment to get this case to allowance (the other independent claim would be similarly amended).

13. (Proposed for discussion) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; ~~and~~

determining, ~~using by~~ the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt ~~using by~~ the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein, ~~if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample. the time length window of the next sample is changed relative to a time window of the first prior sample based on the attempt to identify the first prior sample indicating a result that is different than a result of an attempt to identify a second prior sample;~~

submitting, by the one or more computers, the determined next sample for attempted content identification; and

generating, by the one or more computers, a play stream of content identifications based on results of attempts to identify a series of samples comprising the determined next sample.

I will try call you today (November 5th) to discuss.

Thank you.

Mike Mauriel, Reg. No. 44,226

MKW

Mauriel Kapouytian Woods LLP

15 W. 26th Street, 7th Floor | New York, NY 10010

Michael Mauriel direct dial: 212.532.2527 | Main number: 212.529.5131

~~manuel@mkwlp.com~~ | ~~www.mkwlp.com~~

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~~manuel@mkwlp.com~~, and delete the message.

Thank you very much.

Attorney Docket No.: 10004-2000107
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer

Application No.: 16/660,633

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 August 5, 2020 (Paper No. 20200801) for which a response is due on November 5, 2020. Filed herewith is a Petition and Fee for a one-month extension of time, thereby extending the deadline for response to December 5, 2020. Accordingly, this response is timely filed. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.

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

Remarks begin on page 7 of this paper.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 10004-2000107																														
Application Number 16/660,633	Filed October 22, 2019																															
For MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD																																
Art Unit 2421	Examiner Davis, Chenea																															
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: center;">Fee</th> <th style="text-align: center;">Small Entity Fee</th> <th style="text-align: center;">Micro Entity Fee</th> <th style="text-align: center;"></th> </tr> </thead> <tbody> <tr> <td>☒ One month (37 CFR 1.17(a)(1))</td> <td style="text-align: right;">\$220</td> <td style="text-align: right;">\$110</td> <td style="text-align: right;">\$55</td> <td style="text-align: right;">\$ <u>110</u></td> </tr> <tr> <td>☐ Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: right;">\$640</td> <td style="text-align: right;">\$320</td> <td style="text-align: right;">\$160</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: right;">\$1,480</td> <td style="text-align: right;">\$740</td> <td style="text-align: right;">\$370</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: right;">\$2,320</td> <td style="text-align: right;">\$1,160</td> <td style="text-align: right;">\$580</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>☐ Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: right;">\$3,160</td> <td style="text-align: right;">\$1,580</td> <td style="text-align: right;">\$790</td> <td style="text-align: right;">\$ _____</td> </tr> </tbody> </table> ☒ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>50-4242</u> ☒ Payment made via EFS-Web. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. I am the ☐ applicant. ☒ attorney or agent of record. Registration number <u>44,226</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____ <u>/Michael Mauriel/</u> <u>November 6, 2020</u> Signature Date <u>Michael Mauriel</u> <u>(212) 532-2527</u> Typed or printed name Telephone Number NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.				Fee	Small Entity Fee	Micro Entity Fee		☒ One month (37 CFR 1.17(a)(1))	\$220	\$110	\$55	\$ <u>110</u>	☐ Two months (37 CFR 1.17(a)(2))	\$640	\$320	\$160	\$ _____	☐ Three months (37 CFR 1.17(a)(3))	\$1,480	\$740	\$370	\$ _____	☐ Four months (37 CFR 1.17(a)(4))	\$2,320	\$1,160	\$580	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$3,160	\$1,580	\$790	\$ _____
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☐ Five months (37 CFR 1.17(a)(5))	\$3,160	\$1,580	\$790	\$ _____																												

☐ * Total of _____ forms are submitted.
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This collection of information is required by 37 CFR 1.136(a). 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 5 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: Mail Stop PCT, 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 disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		16660633		
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:		10004-2000107		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	2251	1	110	110
Miscellaneous:				
Total in USD (\$)				110

Electronic Acknowledgement Receipt	
EFS ID:	41052129
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	06-NOV-2020
Filing Date:	22-OCT-2019
Time Stamp:	19:49:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	EFT
Payment was successfully received in RAM	\$110
RAM confirmation Number	E2020A6J50392014
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		100042000107_RespNFOAssigned.pdf	472944	yes	8
			4303e8d3b89e8f66c684e6ceb35fc1d6459d6b9f		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		7	8	
	Claims		2	6	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
2	Extension of Time	100042000107_EOTSIGNED.pdf	1499854	no	2
			263cb529c8b85eee2dea891a24e89958513026d6		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30517	no	2
			09c378349cd8355e9fe9f5a4515d58be4db2e73f		
Warnings:					
Information:					
Total Files Size (in bytes):			2003315		

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.

REMARKS

Claims 13-29 were and remain pending and under consideration in the present application. Claims 13 and 23 are amended herein.

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.

Telephone Interview

Applicant's representative spoke with the Examiner on November 5, 2020. Applicant thanks the Examiner for taking the time to discuss this case. It was agreed that the amendments presented herein would overcome the outstanding rejections and result in allowance.

Claim Rejections - 35 U.S.C § 101

Claims 13-28 are rejected under 35 U.S.C. 101. As agreed in the Telephone Interview, the amendments presented herein overcome the rejections under 35 USC §101. Applicant therefore respectfully requests removal of these rejections.

Claim Rejections - 35 U.S.C. § 103

Claims 13-29 are rejected under 35 U.S.C. 103(a) as being allegedly unpatentable over various references. As agreed in the Telephone Interview, the amendments presented herein overcome the rejections under 35 U.S.C. §103. Applicant therefore respectfully requests removal of these rejections.

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. 10004-2000107.

Dated: November 6, 2020

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

AMENDMENTS TO THE CLAIMS

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

1-12. (Cancelled)

13. (Currently Amended) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, ~~using~~ by the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt ~~using~~ by the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein, ~~if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample.~~ the time length window of the next sample is changed relative to a time length window of the first prior sample based on the attempt to identify the first prior sample indicating a result that is different than a result of an attempt to identify a second prior sample;

submitting, by the one or more computers, the determined next sample for attempted content identification; and

generating, by the one or more computers, a play stream of content identifications based on results of attempts to identify a series of samples comprising the determined next sample.

14. (Previously Presented) The method of claim 13 wherein determining comprises selecting a format of a sample.

15. (Previously Presented) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to requirements of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting video parameters corresponding to one of a plurality of available content recognition algorithms based at least in part upon an identification result corresponding to the n'th sample.

16. (Previously Presented) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to settings of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting a setting from a plurality of settings of a content recognition algorithm based at least in part upon an identification result corresponding to the n'th sample.

17. (Previously Presented) The method of claim 13 wherein channel data is used in determining the next sample, the channel data relating to recently identified samples.

18. (Previously Presented) The method of claim 13 wherein content data is used in determining the next sample, the content data relating one or more recently identified samples.

19. (Previously Presented) The method of claim 18 wherein content data includes at least one of content type and content length.

20. (Previously Presented) The method of claim 13 wherein sample sequence data is used in determining the next sample, the sample sequence data relating to recently identified samples.

21. (Previously Presented) The method of claim 13 wherein log data is used in determining the next sample, the log data relating to a media player of an audience member using the monitoring device.

22. (Previously Presented) The method of claim 13 wherein location data is used in determining the next sample, the location data relating to a media player of an audience member using the monitoring device.

23. (Currently Amended) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, ~~using by~~ the one or more computers, a next sample for attempted identification based at least in part upon a result of an attempt ~~using by~~ the one or more computers to identify prior samples against a computerized database of known content wherein determining the next sample comprises selecting a relative time location of the next sample within the video data such that ~~if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be between a~~

~~relative time location of the first prior sample and a relative time location of the second prior sample; the relative time location of the next sample is selected to be between a relative time location of the first prior sample and a relative time location of the second prior sample based on a result of attempting to identify a first prior sample against the computerized database of known content being different from a result of attempting to identify a second prior sample against the computerized database of known content;~~

submitting, by the one or more computers, the determined next sample for attempted content identification; and

generating, by the one or more computers, a play stream of content identifications based on results of attempts to identify a series of samples comprising the determined next sample.

24. (Previously Presented) The method of claim 23 further comprising, for a series of samples of the video data:

determining a sample by selecting an $(n \pm r)$ 'th sample for to be submitted for content recognition wherein r is determined at least in part based upon an identification result corresponding to the n 'th sample.

25. (Previously Presented) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample does not indicate an identification.

26. (Previously Presented) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample indicates absence of any media content.

27. (Previously Presented) The method of claim 26 further comprising: depending upon identification results corresponding to an n 'th and an $(n \pm r)$ 'th sample, determining whether any samples captured between the n 'th and the $(n \pm r)$ 'th sample should be submitted for a content recognition attempt.

28. (Previously Presented) The method of claim 27 further comprising:

submitting one or more samples captured between the n 'th and the $(n \pm r)$ 'th sample for a content identification attempt if the identification results corresponding to the n 'th and $(n \pm r)$ 'th sample do not match.

29. (Previously Presented) The method of claim 23 wherein: if the result of attempting to identify the first prior sample against the computerized database of known content does not differ from the result of attempting to identify the second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be after relative time locations of the first and second prior samples.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/660,633		Filing Date 10/22/2019		☐ To be Mailed		
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)		(Column 2)						
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$100 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$460 =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED - PART II										
		(Column 1)		(Column 2)		(Column 3)				
AMENDMENT	11/06/2020		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))		* 17	Minus	** 20	= 0			x \$100 =	0
	Independent (37 CFR 1.16(h))		* 2	Minus	*** 3	= 0			x \$480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE		0
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))		*	Minus	**	=			x \$0 =	
	Independent (37 CFR 1.16(h))		*	Minus	***	=			x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE		
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/DORIS M KING/		
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825
51417	7590	09/02/2020		
Mauriel Kapouytian Woods LLP			EXAMINER	
15 W. 26th Street			DAVIS, CHENEA	
7th Floor				
New York, NY 10010			ART UNIT	PAPER NUMBER
			2421	
			NOTIFICATION DATE	DELIVERY MODE
			09/02/2020	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

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

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P.O. Box 1450

Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
16/660,633	10/22/2019	Steuer et al.	10004-2000107

Mauriel Kapouytian Woods LLP 15 W. 26th Street 7th Floor New York, NY 10010		EXAMINER	
		CHENEA DAVIS	
		ART UNIT	PAPER
		2421	20200829

DATE MAILED: 29 August 2020

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

Commissioner for Patents

In reviewing the proposed amendments submitted by the Examiner in the Interview Summary mailed 8/5/2020, the Examiner realized that the format of the form did not allow the changes to the claims to be presented. For correction and clarification, the proposed amendments are attached (please see attached communication).

/CHENEA DAVIS/
Primary Examiner, Art Unit 2421

Notice of Pre-AIA or AIA Status

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

In reviewing the proposed amendments submitted by the Examiner in the Interview Summary mailed 8/5/2020, the Examiner realized that the format of the form did not allow the changes to the claims to be accurately presented. **For correction and clarification, the proposed amendments are as follows:**

Claim 13. A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, ~~by using~~ the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt ~~by using~~ the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content;

wherein, ~~if~~ the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, ~~then~~ and the time length window of the next sample is changed relative to a time window of the first prior sample;

submitting, by the one or more computers, the determined next sample for attempted content identification based on the changed time length window; and

generating for display, by the one or more computers, a play stream indicating a series of samples including the determined next sample and corresponding identification results based on attempted identification results.

Claim 23. (Previously Presented) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, ~~by using~~ the one or more computers, a next sample of the video data for attempted identification based at least in part upon a result of an attempt ~~by using~~ the one or more computers to identify prior samples against a computerized database of known content, wherein determining the next sample comprises:

selecting a relative time location of the next sample within the video data;[[,]]

determining, by the one or more computers, such that if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, ~~then and~~

selecting the relative time location of the next sample within the video data ~~is selected~~ to be between a relative time location of the first prior sample and a relative time location of the second prior sample;

submitting, by the one or more computers, the determined next sample for attempted identification based on the selected relative time location; and

generating for display, by the one or more computers, a play stream indicating a series of samples including the determined next sample and corresponding identification results based on attempted identification results.

/CHENEA DAVIS/
Primary Examiner, Art Unit 2421



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825
51417	7590	08/05/2020		
Mauriel Kapouytian Woods LLP			EXAMINER	
15 W. 26th Street			DAVIS, CHENEA	
7th Floor				
New York, NY 10010			ART UNIT	PAPER NUMBER
			2421	
			NOTIFICATION DATE	DELIVERY MODE
			08/05/2020	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

Office Action Summary	Application No. 16/660,633	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 4/24/2020.
 ☐ 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) 13-29 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) 13-29 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 ____ 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.

Terminal Disclaimer

2. The terminal disclaimer filed on 04/24/2020 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **US8677389** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 13-28 are rejected under 35 U.S.C. 101 because the claimed invention is directed to an abstract idea without significantly more. The claims recite:

“receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein, if the attempt to identify the first

prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample”.

The limitation of determining, using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content, as drafted, is a process that, under its broadest reasonable interpretations, covers performance of the limitation in the mind but for the recitation of generic computer components. That is, other than reciting “using the one or more computers”, nothing in the claim elements precludes the step from practically being performed in the mind. For example, but for the “using the one or more computers” language, “determining” in the context of this claim encompasses a user making mental note of a next sample for attempted identification by deciding that the time length of the sample will be different than before. Additionally, the mere recitation of a generic computer does not take the claim limitation out of the mental processes grouping. If a claim limitation, under its broadest reasonable interpretation, covers performance of the limitation in the mind but for the recitation of generic computer components, then it falls within the “Mental Processes” grouping of abstract ideas. Accordingly, the claim recites an abstract idea, and this judicial exception is not integrated into a practical application.

The claims do not include additional elements that are sufficient to amount to significantly more than the judicial exception. Specifically, the claims recite the additional elements of: one or more computers to perform the determining step; “receiving, at one or more computers, video data

from a monitoring device, the video data being divisible into samples”; and “wherein, if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample”. The computer/ computers are recited at a high-level of generality (*i.e.*, as a generic computer performing generic computer functions of receiving and determining information) such that it amounts no more than mere instructions for simple data-gathering and applying the exception using a generic computer component. The additional step of receiving and the “wherein limitation” amounts to adding insignificant extra solution activity. Accordingly, the additional elements do not integrate the abstract idea into a practical application because they do not impose any meaningful limits on practicing the abstract idea, and the claim does not include additional elements that *are* sufficient to amount to significantly more than the judicial exception. Therefore, the claim is not patent-eligible.

Additionally, none of the dependent claims include additional elements that are sufficient to amount to significantly more than the judicial exception, and therefore are not patent-eligible.

Claim Rejections - 35 USC § 103

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

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

6. Claims 13-14, 18-20 and 23-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang (US20080154401, hereinafter Wang) in view of Sykes, Jr. (US5210366, hereinafter Sykes).

Regarding claims 13 and 29, Wang discloses a media measurement method (see Wang, at least at [0017] and related text) comprising:

receiving, at one or more computers, video data from a monitoring device (receiver 104, see Wang, at least at Fig. 1 and related text), the video data being divisible into samples (see Wang, at least at [0017], [0022] and related text); and

determining, using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample based at least in part upon a result of an attempt using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content (see Wang, at least at [0053]-[0054] and related text).

And while Wang discloses determining the next sample, Wang does not specifically disclose adjusting a length of a time window of the next sample (The Examiner notes that the limitation of “wherein, if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample” is a contingent limitation. The broadest reasonable interpretation of a method (or process) claim having contingent limitations requires only those steps that must be performed and does not include steps that are not required to be performed because the condition(s) precedent are not met. For example, assume a method claim requires step A if a first condition happens and step B if a second condition happens.

If the claimed invention may be practiced without either the first or second condition happening, then neither step A or B is required by the broadest reasonable interpretation of the claim. If the claimed invention requires the first condition to occur, then the broadest reasonable interpretation of the claim requires step A. If the claimed invention requires both the first and second conditions to occur, then the broadest reasonable interpretation of the claim requires both steps A and B. See *Ex parte Schulhauser*, Appeal 2013-007847 (PTAB April 28, 2016) for an analysis of contingent claim limitations in the context of both method claims and system claims).

In an analogous art relating to a system for audio signal analysis, Sykes discloses adjusting a length of a time window of the next sample (see Sykes, at least at col 9, lines 37-60, col 10, lines 34-53 and related text).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Wang to include the limitations as taught by Sykes for the advantage of providing an improved system for identifying content that further avoids repetitious operations to explore unnecessary possibilities, thereby conserving system resources.

Regarding claim 14, Wang in view of Sykes discloses wherein determining comprises selecting a format of a sample (the format being the sampling period, see Wang, at least at [0053], lines 8-10 and related text).

Regarding claim 18, Wang in view of Sykes discloses wherein content data is used in determining the next sample, the content data relating one or more recently identified samples (see Wang, at least at [0017], lines 1-8, [0055], lines 1-13 and related text).

Regarding claim 19, Wang in view of Sykes discloses wherein content data includes content length (see Wang, at least at [0017], lines 1-8, [0055], lines 1-13 and related text).

Regarding claim 20, Wang in view of Sykes discloses wherein sample sequence data is used in determining the next sample, the sample sequence data relating to recently identified samples (see Wang, at least at [0017], lines 1-8, [0053]-[0055] and related text).

Regarding claim 23, Wang in view of Sykes discloses a media measurement method (see Wang, at least at [0017] and related text) comprising:

receiving, at one or more computers, video data from a monitoring device (receiver 104, see Wang, at least at Fig. 1 and related text), the video data being divisible into samples (see Wang, at least at [0022] and related text); and

determining, using the one or more computers, a next sample for attempted identification based at least in part upon a result of an attempt using the one or more computers to identify prior samples against a computerized database of known content wherein determining the next sample comprises selecting a relative time location of the next sample within the video data relative to a time location of the prior sample based at least in part upon the result of the attempt to identify the prior sample (see Wang, at least at [0053]-[0055] and related text).

And while Wang discloses determining the next sample, Wang does not specifically disclose adjusting a length of a time window of the next sample (The Examiner notes that the limitation of “such that if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be between a relative time location of the first prior sample and a relative time location of the second prior sample” is a contingent limitation. The broadest reasonable interpretation of a method (or process) claim having contingent limitations requires only those steps that must be performed and does not include steps that are not

required to be performed because the condition(s) precedent are not met. For example, assume a method claim requires step A if a first condition happens and step B if a second condition happens. If the claimed invention may be practiced without either the first or second condition happening, then neither step A or B is required by the broadest reasonable interpretation of the claim. If the claimed invention requires the first condition to occur, then the broadest reasonable interpretation of the claim requires step A. If the claimed invention requires both the first and second conditions to occur, then the broadest reasonable interpretation of the claim requires both steps A and B. See *Ex parte Schulhauser*, Appeal 2013-007847 (PTAB April 28, 2016) for an analysis of contingent claim limitations in the context of both method claims and system claims).

In an analogous art relating to a system for audio signal analysis, Sykes discloses adjusting a length of a time window of the next sample (see Sykes, at least at col 9, lines 37-60, col 10, lines 34-53 and related text).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Wang to include the limitations as taught by Sykes for the advantage of providing an improved system for identifying content that further avoids repetitious operations to explore unnecessary possibilities, thereby conserving system resources.

Regarding claim 24, Wang in view of Sykes discloses wherein, for a series of samples of the video data:

determining a sample comprises selecting an $(n+r)$ 'th sample for to be submitted for content recognition wherein r is determined at least in part based upon an identification result corresponding to the n 'th sample (see Wang, at least at [0053]-[0055] and related text).

Regarding claim 25, Wang in view of Sykes discloses wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample does not indicate an identification (see Wang, at least at [0048], lines 1-9 and related text).

Regarding claim 26, Wang in view of Sykes discloses wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample indicates absence of any media content (the absence of any media being the absence of program content, where there is only non-program content such as a DJ talking, or the transition between tracks, see Wang, at least at [0048], lines 1-13, [0055], lines 8-16 and related text).

Regarding claim 27, Wang in view of Sykes discloses, depending upon identification results corresponding to an n 'th and an $(n+r)$ 'th sample, determining whether any samples captured between the n 'th and the $(n+r)$ 'th sample should be submitted for a content recognition attempt (determining to sample multiple samples close in time for increased certainty, see Wang, at least at [0056], lines 1-11 and related text).

Regarding claim 28, Wang in view of Sykes discloses submitting one or more samples captured between the n 'th and the $(n+r)$ 'th sample for a content identification attempt if the identification results corresponding to the n 'th and $(n+r)$ 'th sample do not match (determining to sample multiple samples close in time demarcation purposes, see Wang, at least at [0056], lines 3-11 and related text).

7. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang (previously cited) in view of Sykes (previously cited), as applied to claim 13 above, and further in view of Herley (US20040001161, hereinafter Herley).

Regarding claim 15, Wang in view of Sykes does not specifically disclose wherein:

selecting a format includes selecting video parameters corresponding to requirements of a content recognition algorithm;

and determining comprises, for a sample subsequent to an n'th sample, selecting audio parameters corresponding to one of a plurality of available content recognition algorithms based at least in part upon an identification result corresponding to the n'th sample.

In an analogous art relating to a system for media measurement, Herley discloses wherein: selecting a format includes selecting parameters (see Herley, at least at [0104], [0159], [0163] and related text) corresponding to requirements of a content recognition algorithm (see Herley, at least at [0025], [0156 and related text]);

and determining comprises, for a sample subsequent to an n'th sample (see Herley, at least at [0163] and related text), selecting audio parameters corresponding to one of a plurality of available content recognition algorithms based at least in part upon an identification result corresponding to the n'th sample (see Herley, at least at [0104], [0159], [0163] and related text).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Wang in view of Sykes to include the limitations as taught by Herley for the advantage of providing an improved system for identifying content such that objects that are not pre-identified are able to be more efficiently and more accurately recognized using various different adaptive techniques.

Regarding claim 16, Wang in view of Sykes, and further in view of Herley discloses wherein: selecting a format includes selecting video parameters corresponding to settings of a content recognition algorithm (the tailoring of the time frame parameter, since the object to be searched is a commercial, see Herley, at least at [0104], [0159], [0163] and related text);

and determining comprises, for a sample subsequent to an n'th sample, selecting a setting from a plurality of settings of a content recognition algorithm based at least in part upon an identification result corresponding to the n'th sample (see Herley, at least at [0104], [0159], [0163] and related text).

Regarding claim 17, Wang in view of Sykes, and further in view of Herley discloses wherein channel data is used in determining the sample (see Herley, at least at [0025] and related text), the channel data relating to recently identified samples (see Herley, at least at [0163] and related text).

8. Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang (previously cited) in view of Sykes (previously cited), as applied to claim 13 above, and further in view of Herley (previously cited) and Platt et al. (US20030009469, hereinafter Platt).

Regarding claim 21, Wang in view of Sykes does not specifically disclose wherein log data is used in determining the next sample, the log data relating to a media player of an audience member using the monitoring device.

In an analogous art, Herley discloses wherein log data is used in determining a sample (see Herley, at least at [0163], lines 4-5 and related text).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Wang in view of Sykes to include the limitations as taught by Herley for the advantage of providing an improved system for identifying content such that objects that are not pre-identified are able to be more efficiently and more accurately recognized using various different adaptive techniques.

Wang in view of Sykes, and further in view of Herley does not specifically disclose the log data relating to a media player of an audience member using the monitoring device.

In an analogous art relating to a system for media measurement and data correlation, Platt discloses log data relating to a media player of an audience member using the monitoring device (see Platt, at least at [0034], lines 10-16, [0037], lines 1-16 and related text).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the system of Wang in view of Sykes and Herley to include the limitations as taught by Platt for the advantage of providing an improved system for identifying content such that objects that are not pre-identified are able to be more efficiently and more accurately recognized using various different adaptive techniques, and inferring more extensive and comprehensive information about the content such that a user has greater control of the content.

Regarding claim 22, Wang in view of Sykes, and further in view of Herley and Platt discloses wherein location data (see Platt, at least at [0034], lines 10-16 and related text) is used in determining the sample (see Herley, at least at [0163], lines 4-5 and related text), the location data relating to a media player of an audience member using the monitoring device (see Platt, at least at [0034], lines 10-16, [0040], lines 1-12 and related text).

Conclusion

9. 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 <https://ppair-my.uspto.gov/pair/PrivatePair>. 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

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The Examiner proposed amendments to overcome issues related to 101 Alice, and prior art rejections based on contingent limitations present in the claims. No agreement was reached.

Proposed amendments were:

13. A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, by using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt by using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content;

wherein, if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then and the time length window of the next sample is changed relative to a time window of the first prior sample.;

submitting, by the one or more computers, the determined next sample for attempted content identification based on the changed time length window; and

generating for display, by the one or more computers, a play stream indicating a series of samples including the determined next sample and corresponding identification results based on attempted identification results.

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

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, by using the one or more computers, a next sample of the video data for attempted identification based at least in part upon a result of an attempt by using the one or more computers to identify prior samples against a computerized database of known content, wherein determining the next sample comprises:

selecting a relative time location of the next sample within the video data;[[,]]

determining, by the one or more computers, such that if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, then and selecting the relative time location of the next sample within the video data is selected to be between a relative time location of the first prior sample and a relative time location of the second prior sample;

submitting, by the one or more computers, the determined next sample for attempted identification based on the selected relative time location; and

generating for display, by the one or more computers, a play stream indicating a series of samples including the determined next sample and corresponding identification results based on attempted identification results.

<i>Notice of References Cited</i>	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.	
	Examiner CHENEA DAVIS	Art Unit 2421	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20080154401-A1	06-2008	Wang; Avery Li-Chun	G11B27/11	700/94
*	B	US-5210366-A	05-1993	Sykes, Jr.; Richard O.	G10H1/0033	84/616
*	C	US-20040001161-A1	01-2004	Herley, Cormac	H04H60/56	348/465
*	D	US-20030009469-A1	01-2003	Platt, John Carlton	G06F16/58	1/1
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

<i>Search Notes</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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 h0l67/22 h04h60/37 h04h60/33	08/01/2020	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	08/01/2020	CD
Updated Inventor search included - see search results printout	08/01/2020	CD
Updated class search (725), cpc search (see above) - text search only, see search results printout	08/01/2020	CD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	see search results printout	08/01/2020	CD

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	
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<i>Search Notes</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 2421

/CHENEA DAVIS/ Primary Examiner, Art Unit 2421	
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<i>Index of Claims</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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	08/01/2020							
	1	-	-							
	2	-	-							
	3	-	-							
	4	-	-							
	5	-	-							
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	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							
	21	✓	✓							
	22	✓	✓							
	23	✓	✓							
	24	✓	✓							
	25	✓	✓							
	26	✓	✓							
	27	✓	✓							
	28	✓	✓							
	29	✓	✓							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	25	("20060090180" "7565153" "7903174" "20060184287" "20090112899" "5615121" "20070192763" "20080104421" "20080154805").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:02
S2	2	11/060222.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:24
S3	9	("20060180649" "6286104" "6810413" "7340677").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:26
S4	8	("20050010963" "20050091699" "20060184978" "5974454").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:30
S5	2,143	@ad<"2040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:29
S6	103	(adapt\$4 with (sampl\$3 near2 width\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:30
S7	0	S5 and S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:31

S8	28,693,081	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:31
S9	46	S6 and S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:32
S10	1	S9 and (audio near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:32
S11	115,467	(music segment\$1 audio song\$1 video\$1 broadcast\$1) near2 (recogni\$7 id identif\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:36
S12	1	S6 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:37
S13	1,119	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (sampl\$3 near2 width\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:41
S14	9	S11 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:41
S15	0	13/229493.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 21:58

S16	4	((radio near frequency) rf) near switchboard\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:07
S17	28,693,094	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:46
S18	8,191	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with next with sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:46
S19	4,317	S17 and S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S20	33,084	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S21	21	S19 and S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S22	383	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) near2 next near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S23	243	S17 and S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:48

S24	1	S20 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:48
S25	2,091	next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:49
S26	58,571	(recogniz\$6 with (music song\$1 video\$1 media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:49
S27	11	S25 and S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:50
S28	6	S17 and S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:50
S29	3,211	next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1 interval\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52
S30	10,589	3and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52
S31	1,893	S17 and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52

S32	211,348	((recogniz\$6 identif\$8) with (music song\$1 video\$1 media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:53
S33	44	S31 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:53
S34	1,677,449	@rlad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:54
S35	16	S33 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:54
S36	40	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) near2 next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1 interval\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:55
S37	7	S34 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:55
S38	31,831	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with subsequent\$2 next following) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S39	3,534	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (subsequent\$2 next following) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57

S40	1,831	S39 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S41	59	S32 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S42	31	S34 and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:58
S43	59	S41 S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:58
S44	2,214	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (subsequent\$2 next) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:59
S45	1,200	S44 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00
S46	1,170,863	S17 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00
S47	495	S44 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00

S48	41	S47 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S49	38	S45 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S50	61	S48 S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S51	3,878	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:43
S52	6	S44 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:45
S53	2	S17 and S52	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:45
S54	2	S34 and S52	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:46
S55	4	S53 S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:46

S56	21,535	(subsequent\$2 next) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:47
S57	93	S51 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:48
S58	38	(S17 S34) and S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:48
S59	62	("20020059577" "4677466" "7444353" "5844938" "8131389" "20020161741" "20080154401" "7634787" "20040055445" "20060059277" "3919479" "20030009469" "20040001161" "20030177488" "6990453" "20020072982" "4697209" "6513161" "20050086682" "20040122679" "5594934" "5945988" "5404161" "5436653" "20020010919" "5758257" "20070143777" "5437050" "7038619").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:54
S60	28,693,094	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27
S61	1,677,449	@rlad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27
S62	3,878	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27

S63	2,576,777	(adapt\$4 with neear2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S64	1,891	S62 and S63	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S65	604	S60 and S64	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S66	20,447	(adapt\$4 near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S67	19	S62 and S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S68	4	S60 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S69	3	S61 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:30
S70	7	S68 S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:30

S71	2,944	(adapt\$4 with sampl\$3 with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:32
S72	1,768	(S60 S61) and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:32
S73	579	(adapt\$4 near2 sampl\$3 with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S74	302	(S60 S61) and S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S75	33,084	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S76	207,764	"455".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S77	6	S74 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34
S78	5	S74 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34

S79	11	S77 S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34
S80	20,059	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) with (sampl\$3 near2 (width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:38
S81	579	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) with (sampl\$3 near2 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:39
S82	334	(S60 S61) and S81	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:39
S83	1	S82 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S84	6	S82 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S85	7	S82 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S86	247	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) near3 (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41

S87	139	(S60 S61) and S86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S88	2	S87 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S89	0	S87 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S90	1	S87 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:42
S91	62	("20020059577" "4677466" "7444353" "5844938" "8131389" "20020161741" "20080154401" "7634787" "20040055445" "20060059277" "3919479" "20030009469" "20040001161" "20030177488" "6990453" "20020072982" "4697209" "6513161" "20050086682" "20040122679" "5594934" "5945988" "5404161" "5436653" "20020010919" "5758257" "20070143777" "5437050" "7038619").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 08:12
S92	8	((JONATHAN) near2 (STEUER)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:19
S93	17	((CHRISTOPHER) near2 (OTTO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:19
S94	8	S92 and S93	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:20

S95	9	S93 not S94	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:20
S96	1	"5210366".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 09:08
S97	957	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:53
S98	40,362	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S99	28,812,040	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S100	430	S97 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S101	3	S98 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:55
S102	4,927	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:55
S103	8	S100 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:56

S104	3	("5210366").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:56
S105	1	12/283353.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:03
S106	2	("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:04
S107	2,237	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near\$3 (width\$1 length\$1 duration interval\$1 period\$1 tim\$3)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:37
S108	997	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:38
S109	440	S99 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:38
S110	5	S109 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:39
S111	1,270	((adapt\$4 chang\$3 long\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2013/10/24 09:40

		length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	JPO; DERWENT			
S112	573	S99 and S111	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:41
S113	6	S102 and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:41
S114	5	S98 and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:43
S115	8	S111 and (backtrack\$3 back\$1track\$3 (back near track\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:45
S116	1	S99 and S115	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:45
S117	1,212	S99 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:46
S118	639	S117 and (backtrack\$3 back\$1track\$3 (back adjtrack\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:46
S119	4	S117 and (backtrack\$3 back\$1track\$3 (back adj track\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2013/10/24 09:46

			JPO; DERWENT			
S120	82	sample\$3 with (backtrack\$3 back\$1track\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:47
S121	26	S99 and S120	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:47
S128	4	"8307355".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 08:40
S129	2	12/148140.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 08:52
S130	4	("6563793" "20060271988").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 09:08
S131	1	13/567927.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 09:48
S132	31	((("STEUER") near3 ("Jonathan")) OR ((("OTTO") near3 ("Christopher")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/07/20 21:59
S133	4	S132 and (adjust\$3 with window\$1).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/20 22:00

S134	17	S132 and (adjust\$3 with window\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/20 22:02
S135	6	("5210366").PN. ("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:29
S136	322	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:59
S137	322	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:59
S138	11	(adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2 earlier) near3 (sample\$1 identification\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:02
S139	2	@ad<"20040527" and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:03
S140	44	(adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:03

		earlier) with (sample\$1 identification\$1)				
S141	10	@ad<"20040527" and S140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:04
S142	47,346	(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/07/21 11:11
S143	44	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S142	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:18
S144	2	@ad<"20040527" and S143	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:19
S145	2	12/283353.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:22
S146	2	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S145	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:24
S147	2	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S145	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:35
S148	57,944	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1	US-PGPUB; USPAT;	OR	OFF	2020/07/21 11:35

		modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)))	USOCR; FPRS; EPO; JPO; DERWENT			
S149	156	S142 and S148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:44
S150	5	@ad<"20040527" and S149	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:44

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S122	355	(identif\$8 with prior with sampl\$4).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:52
S123	4,892	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 \$2long\$5 modification\$1 increas\$3) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:53
S124	4,808	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 \$2long\$5 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1))).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:54
S125	224	((adapt\$4 chang\$3 decreas\$2 \$2long\$5 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio)).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:59
S126	5,093	(determin\$6 with (next subsequent\$2 follow\$3) with sampl\$3).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 10:02

S127	11	S125 and S126	US- PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 10:03
S151	12	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near\$3 tim\$3 near\$3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2 earlier) with (sample\$1 identification\$1)).clm.	US- PGPUB; USPAT	OR	OFF	2020/07/21 11:07
S152	16,289	(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33).cpc.	US- PGPUB; USPAT	OR	OFF	2020/07/21 11:11

7/21/2020 3:28:46 PM

C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 353-3.wsp

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	25	("20060090180" "7565153" "7903174" "20060184287" "20090112899" "5615121" "20070192763" "20080104421" "20080154805").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:02
S2	2	11/060222.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:24
S3	9	("20060180649" "6286104" "6810413" "7340677").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:26
S4	8	("20050010963" "20050091699" "20060184978" "5974454").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 11:30
S5	2,143	@ad<"2040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:29
S6	103	(adapt\$4 with (sampl\$3 near2 width\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:30
S7	0	S5 and S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:31

S8	28,693,081	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:31
S9	46	S6 and S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:32
S10	1	S9 and (audio near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:32
S11	115,467	(music segment\$1 audio song\$1 video\$1 broadcast\$1) near2 (recogni\$7 id identif\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:36
S12	1	S6 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:37
S13	1,119	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (sampl\$3 near2 width\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:41
S14	9	S11 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/10 12:41
S15	0	13/229493.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 21:58

S16	4	((radio near frequency) rf) near switchboard\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:07
S17	28,693,094	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:46
S18	8,191	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with next with sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:46
S19	4,317	S17 and S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S20	33,084	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S21	21	S19 and S20	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S22	383	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) near2 next near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:47
S23	243	S17 and S22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:48

S24	1	S20 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:48
S25	2,091	next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:49
S26	58,571	(recogniz\$6 with (music song\$1 video\$1 media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:49
S27	11	S25 and S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:50
S28	6	S17 and S27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:50
S29	3,211	next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1 interval\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52
S30	10,589	3and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52
S31	1,893	S17 and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:52

S32	211,348	((recogniz\$6 identif\$8) with (music song\$1 video\$1 media))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:53
S33	44	S31 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:53
S34	1,677,449	@rlad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:54
S35	16	S33 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:54
S36	40	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) near2 next near2 sampl\$3 near2 (length\$1 width\$1 period\$1 duration\$1 interval\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:55
S37	7	S34 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:55
S38	31,831	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with subsequent\$2 next following) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S39	3,534	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (subsequent\$2 next following) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57

S40	1,831	S39 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S41	59	S32 and S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:57
S42	31	S34 and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:58
S43	59	S41 S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:58
S44	2,214	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1) with (subsequent\$2 next) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 22:59
S45	1,200	S44 and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00
S46	1,170,863	S17 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00
S47	495	S44 and S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:00

S48	41	S47 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S49	38	S45 and S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S50	61	S48 S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:01
S51	3,878	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:43
S52	6	S44 and S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:45
S53	2	S17 and S52	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:45
S54	2	S34 and S52	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:46
S55	4	S53 S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:46

S56	21,535	(subsequent\$2 next) with sampl\$3 with (length\$1 width\$1 period\$1 duration\$1 interval)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:47
S57	93	S51 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:48
S58	38	(S17 S34) and S57	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:48
S59	62	("20020059577" "4677466" "7444353" "5844938" "8131389" "20020161741" "20080154401" "7634787" "20040055445" "20060059277" "3919479" "20030009469" "20040001161" "20030177488" "6990453" "20020072982" "4697209" "6513161" "20050086682" "20040122679" "5594934" "5945988" "5404161" "5436653" "20020010919" "5758257" "20070143777" "5437050" "7038619").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/13 23:54
S60	28,693,094	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27
S61	1,677,449	@rlad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27
S62	3,878	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:27

S63	2,576,777	(adapt\$4 with neear2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S64	1,891	S62 and S63	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S65	604	S60 and S64	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:28
S66	20,447	(adapt\$4 near2 sampl\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S67	19	S62 and S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S68	4	S60 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:29
S69	3	S61 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:30
S70	7	S68 S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:30

S71	2,944	(adapt\$4 with sampl\$3 with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:32
S72	1,768	(S60 S61) and S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:32
S73	579	(adapt\$4 near2 sampl\$3 with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S74	302	(S60 S61) and S73	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S75	33,084	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S76	207,764	"455".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:33
S77	6	S74 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34
S78	5	S74 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34

S79	11	S77 S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:34
S80	20,059	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) with (sampl\$3 near2 (width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:38
S81	579	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) with (sampl\$3 near2 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:39
S82	334	(S60 S61) and S81	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:39
S83	1	S82 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S84	6	S82 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S85	7	S82 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:40
S86	247	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1) near3 (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41

S87	139	(S60 S61) and S86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S88	2	S87 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S89	0	S87 and S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:41
S90	1	S87 and S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 07:42
S91	62	("20020059577" "4677466" "7444353" "5844938" "8131389" "20020161741" "20080154401" "7634787" "20040055445" "20060059277" "3919479" "20030009469" "20040001161" "20030177488" "6990453" "20020072982" "4697209" "6513161" "20050086682" "20040122679" "5594934" "5945988" "5404161" "5436653" "20020010919" "5758257" "20070143777" "5437050" "7038619").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/01/14 08:12
S92	8	((JONATHAN) near2 (STEUER)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:19
S93	17	((CHRISTOPHER) near2 (OTTO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:19
S94	8	S92 and S93	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:20

S95	9	S93 not S94	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 08:20
S96	1	"5210366".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/01/14 09:08
S97	957	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:53
S98	40,362	"725".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S99	28,812,040	@ad<"20040527"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S100	430	S97 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:54
S101	3	S98 and S100	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:55
S102	4,927	700/94.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:55
S103	8	S100 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:56

S104	3	("5210366").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 08:56
S105	1	12/283353.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:03
S106	2	("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:04
S107	2,237	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near\$3 (width\$1 length\$1 duration interval\$1 period\$1 tim\$3)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:37
S108	997	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:38
S109	440	S99 and S108	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:38
S110	5	S109 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:39
S111	1,270	((adapt\$4 chang\$3 long\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2013/10/24 09:40

		length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	JPO; DERWENT			
S112	573	S99 and S111	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:41
S113	6	S102 and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:41
S114	5	S98 and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:43
S115	8	S111 and (backtrack\$3 back\$1track\$3 (back near track\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:45
S116	1	S99 and S115	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:45
S117	1,212	S99 and S102	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:46
S118	639	S117 and (backtrack\$3 back\$1track\$3 (back adjtrack\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:46
S119	4	S117 and (backtrack\$3 back\$1track\$3 (back adj track\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2013/10/24 09:46

			JPO; DERWENT			
S120	82	sampl\$3 with (backtrack\$3 back\$1track\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:47
S121	26	S99 and S120	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/10/24 09:47
S128	4	"8307355".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 08:40
S129	2	12/148140.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 08:52
S130	4	("6563793" "20060271988").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 09:08
S131	1	13/567927.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2013/11/04 09:48
S132	31	((("STEUER") near3 ("Jonathan")) OR ((("OTTO") near3 ("Christopher")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/07/20 21:59
S133	4	S132 and (adjust\$3 with window\$1).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/20 22:00

S134	17	S132 and (adjust\$3 with window\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/20 22:02
S135	6	("5210366").PN. ("20080154401").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:29
S136	322	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:59
S137	322	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 10:59
S138	11	(adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2 earlier) near3 (sample\$1 identification\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:02
S139	2	@ad<"20040527" and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:03
S140	44	(adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)) with based with (prior previous\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:03

		earlier) with (sample\$1 identification\$1)				
S141	10	@ad<"20040527" and S140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:04
S142	47,346	(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/07/21 11:11
S143	44	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S142	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:18
S144	2	@ad<"20040527" and S143	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:19
S145	2	12/283353.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:22
S146	2	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S145	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:24
S147	2	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))) and S145	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:35
S148	57,944	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1	US-PGPUB; USPAT;	OR	OFF	2020/07/21 11:35

		modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)))	USOCR; FPRS; EPO; JPO; DERWENT			
S149	156	S142 and S148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:44
S150	5	@ad<"20040527" and S149	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 11:44
S153	32	(prevent\$3 near3 terminat\$4 near43 service\$1).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 15:28
S154	2	14/501520.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/21 15:30
S155	2	("20170149860").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/22 09:44
S156	16	("20040001705" "20090256972" "20110258188" "20120011109" "20120123978" "20160092561").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/22 10:15
S157	1	16/387595.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2020/07/23 10:14
S158	8	((("SKOWRONSKI") near3 ("Zbigniew"))).INV.	US-PGPUB; USPAT; USOCR;	OR	ON	2020/07/23 11:38

			EPO; JPO; DERWENT			
S159	1	S158 and (channel near predict\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2020/07/23 11:38

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S122	355	(identif\$8 with prior with sampl\$4).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:52
S123	4,892	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 \$2long\$5 modification\$1 increas\$3) with (sampl\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1))).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:53
S124	4,808	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 \$2long\$5 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1))).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:54
S125	224	((adapt\$4 chang\$3 decreas\$2 \$2long\$5 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3) with (sampl\$3 with tim\$3 with (width\$1 length\$1 duration interval\$1 period\$1)) with (broadcast\$1 media video\$1 music song\$1 audio)).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 09:59
S126	5,093	(determin\$6 with (next subsequent\$2 follow\$3) with sampl\$3).clm.	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 10:02
S127	11	S125 and S126	US-PGPUB; USPAT; *No UPAD	OR	OFF	2013/10/24 10:03
S151	12	((adapt\$4 chang\$3 decreas\$2 shorten\$3 adjust\$3 adjustment\$1 modif\$4 modification\$1 increas\$3 widen\$4) with (sampl\$3 near3 tim\$3 near3 (width\$1 length\$1 duration interval\$1 period\$1)))	US-PGPUB; USPAT	OR	OFF	2020/07/21 11:07

		with based with (prior previous\$2 earlier) with (sample\$1 identification\$1)).clm.				
S152	16,289	(g06q30/0246 h04l65/4076 h04l65/605 h0rl67/22 h04h60/37 h04h60/33).cpc.	US- PGPUB; USPAT	OR	OFF	2020/07/21 11:11

7/23/2020 1:42:04 PM

C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 353-3.wsp

Doc Code: ECOMM.AUTH/ECOMM.WTDW

Doc Description: Internet Communications Authorized/Internet Communications Authorization Withdrawn

PTO/SB/439 (11-15)

**AUTHORIZATION FOR INTERNET
COMMUNICATIONS IN A PATENT
APPLICATION OR REQUEST TO
WITHDRAW AUTHORIZATION FOR
INTERNET COMMUNICATIONS**

Application No.	16/660,633
Filing Date	October 22, 2019
First Named Inventor	Jonathan S. Steuer
Art Unit	2421
Examiner Name	Davis, Chenea
Practitioner Docket No.	10004-2000107

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

I. To authorize permission for Internet Communications.

☒ Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

II. To withdraw authorization for Internet Communications.

☐ The authorization given on _____, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

☐ applicant.

☒ attorney or agent of record. Registration number 44,226.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Michael Mauriel/
Signature

July 30, 2020
Date

Michael Mauriel
Typed or printed name

212-532-2527
Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below*.

☐ * Total of _____ forms are submitted.

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt	
EFS ID:	40156349
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	30-JUL-2020
Filing Date:	22-OCT-2019
Time Stamp:	19:39:33
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	Internet Communications Authorized	100042000107_AuthorizationInternetComm.pdf	468176	no	2
			e4911b2cd8a0e12d18d7f6c72a8eaa257c48091		
Warnings:					

Information:	
Total Files Size (in bytes):	468176
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Attorney Docket No.: 10004-2000107
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer

Application No.: 16/660,633

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 6 of this paper.

A LISTING OF THE CLAIMS

1-12. (Cancelled)

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

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein, if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample.

14. (Previously Presented) The method of claim 13 wherein determining comprises selecting a format of a sample.

15. (Previously Presented) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to requirements of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting video parameters corresponding to one of a plurality of available content recognition algorithms based at least in part upon an identification result corresponding to the n'th sample.

16. (Previously Presented) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to settings of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting a setting from a plurality of settings of a content recognition algorithm based at least in part upon an identification result corresponding to the n'th sample.

17. (Previously Presented) The method of claim 13 wherein channel data is used in determining the next sample, the channel data relating to recently identified samples.

18. (Previously Presented) The method of claim 13 wherein content data is used in determining the next sample, the content data relating one or more recently identified samples.

19. (Previously Presented) The method of claim 18 wherein content data includes at least one of content type and content length.

20. (Previously Presented) The method of claim 13 wherein sample sequence data is used in determining the next sample, the sample sequence data relating to recently identified samples.

21. (Previously Presented) The method of claim 13 wherein log data is used in determining the next sample, the log data relating to a media player of an audience member using the monitoring device.

22. (Previously Presented) The method of claim 13 wherein location data is used in determining the next sample, the location data relating to a media player of an audience member using the monitoring device.

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

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, using the one or more computers, a next sample for attempted identification based at least in part upon a result of an attempt using the one or more computers to identify prior samples against a computerized database of known content wherein determining the next sample comprises selecting a relative time location of the next sample within the video data such that if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be between a relative time location of the first prior sample and a relative time location of the second prior sample.

24. (Previously Presented) The method of claim 23 further comprising, for a series of samples of the video data:

determining a sample by selecting an $(n \pm r)$ 'th sample for to be submitted for content recognition wherein r is determined at least in part based upon an identification result corresponding to the n 'th sample.

25. (Previously Presented) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample does not indicate an identification.

26. (Previously Presented) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample indicates absence of any media content.

27. (Previously Presented) The method of claim 26 further comprising: depending upon identification results corresponding to an n 'th and an $(n \pm r)$ 'th sample, determining whether any samples captured between the n 'th and the $(n \pm r)$ 'th sample should be submitted for a content recognition attempt.

28. (Previously Presented) The method of claim 27 further comprising:

submitting one or more samples captured between the n 'th and the $(n \pm r)$ 'th sample for a content identification attempt if the identification results corresponding to the n 'th and $(n \pm r)$ 'th sample do not match.

29. (Previously Presented) The method of claim 23 wherein: if the result of attempting to identify the first prior sample against the computerized database of known content does not differ from the result of attempting to identify the second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be after relative time locations of the first and second prior samples.

REMARKS

Claims 13-29 were pending and under consideration in the present application. By virtue of this response, no claims have been cancelled, added, or amended. Therefore, claims 13-29 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 13-29 are rejected on the ground of non-statutory obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 8,677,389.

Filed herewith is a Terminal Disclaimer with respect to the claims of U.S. Patent No. 8,677,389, which overcomes the above-stated non-statutory double patenting rejections of claims 13-29.

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

Application Serial No.: 16/660,633

Attorney Docket No.: 10004-2000107

hereby authorized to charge any fees which may be required by this paper to
Deposit Account No. 50-4242, referencing docket no. 10004-2000107.

Dated: April 24, 2020

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 Acknowledgement Receipt	
EFS ID:	39262872
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	24-APR-2020
Filing Date:	22-OCT-2019
Time Stamp:	19:36:23
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		100042000107RespNFOA.pdf	453513	yes	7
			919f849f3720e3613fb68d509b012b291d070d26		

Multipart Description/PDF files in .zip description			
Document Description		Start	End
Amendment/Req. Reconsideration-After Non-Final Reject		1	1
Claims		2	5
Applicant Arguments/Remarks Made in an Amendment		6	7
Warnings:			
Information:			
Total Files Size (in bytes):		453513	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

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	16660633		
Filing Date	22-Oct-2019		
First Named Inventor	Jonathan Steuer		
Attorney Docket Number	10004-2000107		
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) 8677389 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 <u>44226</u> ☐ 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	/Michael Mauriel/
Name	Michael Mauriel

*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:		16660633		
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:		10004-2000107		
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.: 16660633

Filing Date: 22-Oct-2019

Applicant/Patent under Reexamination: Steuer

Electronic Terminal Disclaimer filed on April 24, 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:	39258954
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	24-APR-2020
Filing Date:	22-OCT-2019
Time Stamp:	19:33:52
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	E20204NJ33480553
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	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33288	no	2
			c11df25aa099b04ff66dcb63443deb68cd9548ddad		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30313	no	2
			91581fc61f51d4704daae43dd162dd25037eeaf7		
Warnings:					
Information:					
Total Files Size (in bytes):			63601		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/660,633		Filing Date 10/22/2019		☐ To be Mailed					
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO													
APPLICATION AS FILED - PART I													
		(Column 1)		(Column 2)									
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)					
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A							
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A							
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A							
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		x \$50 =							
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		x \$230 =							
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).											
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))													
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL							
APPLICATION AS AMENDED - PART II													
		(Column 1)		(Column 2)		(Column 3)							
AMENDMENT	04/24/2020		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))		* 17		Minus ** 20		= 0		x \$50 =		0		
	Independent (37 CFR 1.16(h))		* 2		Minus *** 3		= 0		x \$230 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))												
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))												
										TOTAL ADD'L FEE		0	
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))		*		Minus **		=		x \$0 =				
	Independent (37 CFR 1.16(h))		*		Minus ***		=		x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))												
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))												
										TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.										LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".										/VIOLA D ROGERS/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".													
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.													

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107

CONFIRMATION NO. 7825

PUBLICATION NOTICE



OC000000114707598

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

Title:MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD

Publication No.US-2020-0051123-A1

Publication Date:02/13/2020

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/660,633	10/22/2019	Jonathan S. Steuer	10004-2000107	7825
51417	7590	01/24/2020		
Mauriel Kapouytian Woods LLP			EXAMINER	
15 W. 26th Street			DAVIS, CHENEA	
7th Floor				
New York, NY 10010			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

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 13-29 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-17 of U.S. Patent No.8677389. 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 except 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

<i>Index of Claims</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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	-								
	9	-								
	10	-								
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	13	✓								
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	27	✓								
	28	✓								
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<i>Search Notes</i> 	Application/Control No. 16/660,633	Applicant(s)/Patent Under Reexamination Steuer et al.
	Examiner CHENEA DAVIS	Art Unit 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	
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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
L22	1	(sequential near2 order\$3).clm. and 10	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:32
L23	5	(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	2020/01/20 13:51
L24	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
L25	6	(23 24) and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:52
L26	2	25 and (@ad<"20040527")	US-PGPUB; USPAT;	OR	OFF	2020/01/20 13:52

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L27	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
L28	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
L29	10	(27 28)	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 13:54
L30	24	(23 24 27 28) and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:54
L31	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
L32	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
L33	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
L34	507	33 and (@ad<"20040527")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:56
L35	7	34 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2020/01/20 13:56
L36	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
L43	2	12/283332.app.	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 14:18
L44	2	12/283353.app.	US-PGPUB; USPAT; EPO	OR	OFF	2020/01/20 14:45
S1	91	("20020161741" "4677466" "20020083060" "7444353" "20020038456" "6990453" "20040224638" "20020059577" "20040122679" "3919479"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2016/07/10 15:25

		"7483975" "20030009469" "20040001161" "20020072982" "7038619" "4697209" "20020072982" "5095382" "20050086682" "5594934" "5778137" "20060059277" "20020010919" "5945988" "6513161" "20020010919" "5758257" "5512933" "20070143777" "5437050" "7779415" "20040048637").PN.	DERWENT; IBM_TDB			
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	US-PGPUB;	OR	OFF	2016/07/11

		expos\$4 with (media content\$1 video\$1 music\$1 audio song\$1)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			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; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:39
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	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:40

		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 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	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2016/07/11 01:41

		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.)				
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;	OR	OFF	2017/04/01 13:23

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; IBM_TDB	OR	OFF	2017/04/01 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;	OR	OFF	2018/03/29 17:11

			IBM_TDB			
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; 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;	OR	OFF	2018/03/29 17:19

			EPO; JPO; DERWENT; IBM_TDB			
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; 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;	OR	OFF	2018/03/29 21:55

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; 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;	OR	OFF	2018/03/29 22:12

			DERWENT; IBM_TDB			
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; 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;	OR	OFF	2018/03/30 08:39

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
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; 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;	OR	OFF	2018/10/30

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			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;	OR	OFF	2018/10/30 18:33

			IBM_TDB			
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; 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;	OR	OFF	2018/10/30 18:36

			EPO; JPO; DERWENT; IBM_TDB			
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 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
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;	OR	OFF	2019/09/03 11:13

			DERWENT; IBM_TDB			
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; IBM_TDB	OR	OFF	2019/11/12 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 (I nterference)

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
L21	10683	(sequential near2 order\$3).clm. and "10"	US- PGPUB; USPAT	OR	OFF	2020/01/20 13:32
L37	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
L38	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
L39	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
L40	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
L41	1	"20170374668".pn.	US- PGPUB; USPAT	OR	OFF	2020/01/20 14:06
L42	2	12/"Term Removed"	US- PGPUB; USPAT	OR	OFF	2020/01/20 14:18
L45	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
L46	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
L47	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
L48	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
L49	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
L50	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
L51	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

EAST Search History

L52	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
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 3:04:24 PM**C:\Users\csmith3\Documents\EAST\Workspaces\Steuer 811 RCE.wsp**

Bibliographic Data

Application No: 16/660,633

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	10004-2000107
RULE			

APPLICANTS

Anonymous Media Research LLC, New York, NY,

INVENTORS

Jonathan S. Steuer New York, NY, UNITED STATES

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

IF REQUIRED, FOREIGN LICENSE GRANTED**

11/06/2019

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

Mauriel Kapouytian Woods LLP

15 W. 26th Street

7th Floor

New York, NY 10010

UNITED STATES

FILING FEE RECEIVED

\$785

Receipt date: 11/01/2019

16/660,633 - GAU: 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

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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16660633
	Filing Date	2019-10-22
	First Named Inventor	Jonathan S. Steuer
	Art Unit	2861
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	10004-2000107

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.	

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Attorney Docket Number	10004-2000107

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.	
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15	5437050	A	1995-07-25	Lamb et al.	
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20	5436653	A	1995-07-25	Ellis et al.	
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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.	
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16	20040055445	A1	2004-03-25	Iyoku et al.	
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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.		☐

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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," Indiantelelevision.com, www.indiantelelevision.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.followthemedias.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	☐
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Attorney Docket Number	10004-2000107

5	ARBITRON, "The Portable People Meter System," Portable People Meter, www.arbitron.com/protable_people_meters/ppm_system.htm , 2004, 4 pages	☐
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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. 16/660,615, filed October 22, 2019.	☐
12	Steuer et al., U.S Patent Application No. 16/660,624, filed October 22, 2019.	☐

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EXAMINER SIGNATURE

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

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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16660633
Filing Date	2019-10-22
First Named Inventor	Jonathan S. Steuer
Art Unit	2861
Examiner Name	Not Yet Assigned
Attorney Docket Number	10004-2000107

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.**



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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
16/660,633	10/22/2019	2861	785	10004-2000107	17	2

CONFIRMATION NO. 7825

FILING RECEIPT



0000000112465035

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 16/660,633**

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/660,633				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), 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))	17	minus 20 = *	x 50 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 = *	x 230 =	0.00	OR					
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)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										

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

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	6	4697209		1987-09-29	Kiewit et al.	
	7	4677466		1987-06-30	Lert, Jr. et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16660633	
	Filing Date		2019-10-22	
	First Named Inventor	Jonathan S. Steuer		
	Art Unit	2861		
	Examiner Name	Not Yet Assigned		
	Attorney Docket Number	10004-2000107		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16660633	
	Filing Date		2019-10-22	
	First Named Inventor	Jonathan S. Steuer		
	Art Unit	2861		
	Examiner Name	Not Yet Assigned		
	Attorney Docket Number	10004-2000107		

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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		16660633	
	Filing Date		2019-10-22	
	First Named Inventor	Jonathan S. Steuer		
	Art Unit	2861		
	Examiner Name	Not Yet Assigned		
	Attorney Docket Number	10004-2000107		

	4	20020072982	A1	2002-06-13	Barton et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16660633	
	Filing Date		2019-10-22	
	First Named Inventor	Jonathan S. Steuer		
	Art Unit	2861		
	Examiner Name	Not Yet Assigned		
	Attorney Docket Number	10004-2000107		

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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		16660633	
	Filing Date		2019-10-22	
	First Named Inventor	Jonathan S. Steuer		
	Art Unit	2861		
	Examiner Name	Not Yet Assigned		
	Attorney Docket Number	10004-2000107		

	4	2005006768	WO	A1	2005-01-20	Lee et al.		☐
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	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," Indiantelelevision.com, www.indiantelelevision.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.followthemedias.com/number/devices01082004.htm, August 1, 2004, 5 pages	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16660633
	Filing Date		2019-10-22
	First Named Inventor	Jonathan S. Steuer	
	Art Unit	2861	
	Examiner Name	Not Yet Assigned	
	Attorney Docket Number	10004-2000107	

5	ARBITRON, "The Portable People Meter System," Portable People Meter, www.arbitron.com/protable_people_meters/ppm_system.htm , 2004, 4 pages	☐
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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. 16/660,615, filed October 22, 2019.	☐
12	Steuer et al., U.S Patent Application No. 16/660,624, filed October 22, 2019.	☐

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

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Examiner Signature		Date Considered	
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*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		16660633
	Filing Date		2019-10-22
	First Named Inventor	Jonathan S. Steuer	
	Art Unit	2861	
	Examiner Name	Not Yet Assigned	
	Attorney Docket Number	10004-2000107	

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:	37636650
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	01-NOV-2019
Filing Date:	
Time Stamp:	18:30:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no				
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	10004-2000107IDSTransmittal.pdf	90139 b26c24ffc56cd838ef815f18efe235c86400e c77	no	4
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	10004-2000107IDS.pdf	177177	no	8
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jonathan S. Steuer

Serial No.: 16/660,633

Filing Date: October 22, 2019

For: MEDIA USAGE MONITORING AND
MEASUREMENT SYSTEM AND METHOD

Examiner: Not Yet Assigned

Group Art Unit: 2861

**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 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. 10004-2000107.

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

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

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

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

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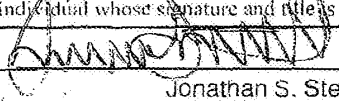
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Assignee Name and Address:
Anonymous Media Research, LLC
72 E. 3rd St., Suite 1B, NY, NY 10003

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.

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:		10004-2000107		
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:	37531411
Application Number:	16660633
International Application Number:	
Confirmation Number:	7825
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:	10004-2000107
Receipt Date:	22-OCT-2019
Filing Date:	
Time Stamp:	19:12:12
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	E20190LJ12308084
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)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	10004-2000107appttrans.pdf	816185	no	1
			4b1d27a87bba4e2e08efd9430c69f23fb6535c2f		
Warnings:					
Information:					
2	Application Data Sheet	10004-2000107ADS.pdf	1256420	no	9
			3ea52e51ccf4845907f3e2c124de9573510ed4ac		
Warnings:					
Information:					
3		10004-2000107Specification.pdf	246841	yes	30
			c6d345c331e4b44979bb13ee809abb43f2cc6a538		
	Multipart Description/PDF files in .zip description				
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	Abstract		30	30	
	Claims		27	29	
	Specification		1	26	
Warnings:					
Information:					
4	Drawings-only black and white line drawings	10004-2000107Figures.pdf	157617	no	7
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Warnings:					
Information:					
5		10004-2000107PreliminaryAmendment.pdf	112076	yes	7
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		7	7	
	Claims		3	6	
	Specification		2	2	
	Preliminary Amendment		1	1	
Warnings:					
Information:					
6	Oath or Declaration filed	10004-2000104Declarations.pdf	496290	no	3
			8d45c019f08dddb5f4cb6af43ce18d2c48bae05e		
Warnings:					
Information:					
7	Assignee showing of ownership per 37 CFR 3.73	10004-2000107Statement37CFR373c.pdf	1572441	no	5
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Warnings:					
Information:					
8	Power of Attorney	10004gpoa.pdf	873194	no	1
			e1e5651d8f15b5f9ec275cd3dc05fe276df21ecb		
Warnings:					
Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	35132	no	2
			616637b3be9698d694a2988604d5461664260899		
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Information:					
Total Files Size (in bytes):			5566196		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	10004-2000107
	First Named Inventor	Jonathan S. Steuer
	Title	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD
	Express Mail Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
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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 <u>30</u>] 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 <u>7</u>] 6. ☒ Inventor's Oath or Declaration [Total Pages <u>3</u>] (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 ☒ Power of Attorney (when there is an assignee) 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: _____ _____ _____ _____
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*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: <u>51417</u> 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.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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.)
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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	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	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	US	
Mailing Address of Inventor:						
Address 1	72 East 3rd Street, Apartment 2B					
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All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		Application Number	
Title of Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD		

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Customer Number	51417		
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Application Information:

Title of the Invention	MEDIA USAGE MONITORING AND MEASUREMENT SYSTEM AND METHOD		
Attorney Docket Number	10004-2000107	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		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)	Remove

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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)

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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.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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			
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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.			
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City	New York	State/Province	NY
Country ⁱ	US	Postal Code	10003
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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
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10004-2000107
		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.**

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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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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

Inventors: Jonathan S. Steuer
Christopher W. Otto

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. “t₀”) 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 associated 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 $(n_1 + 6)^{\text{th}}$ 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.

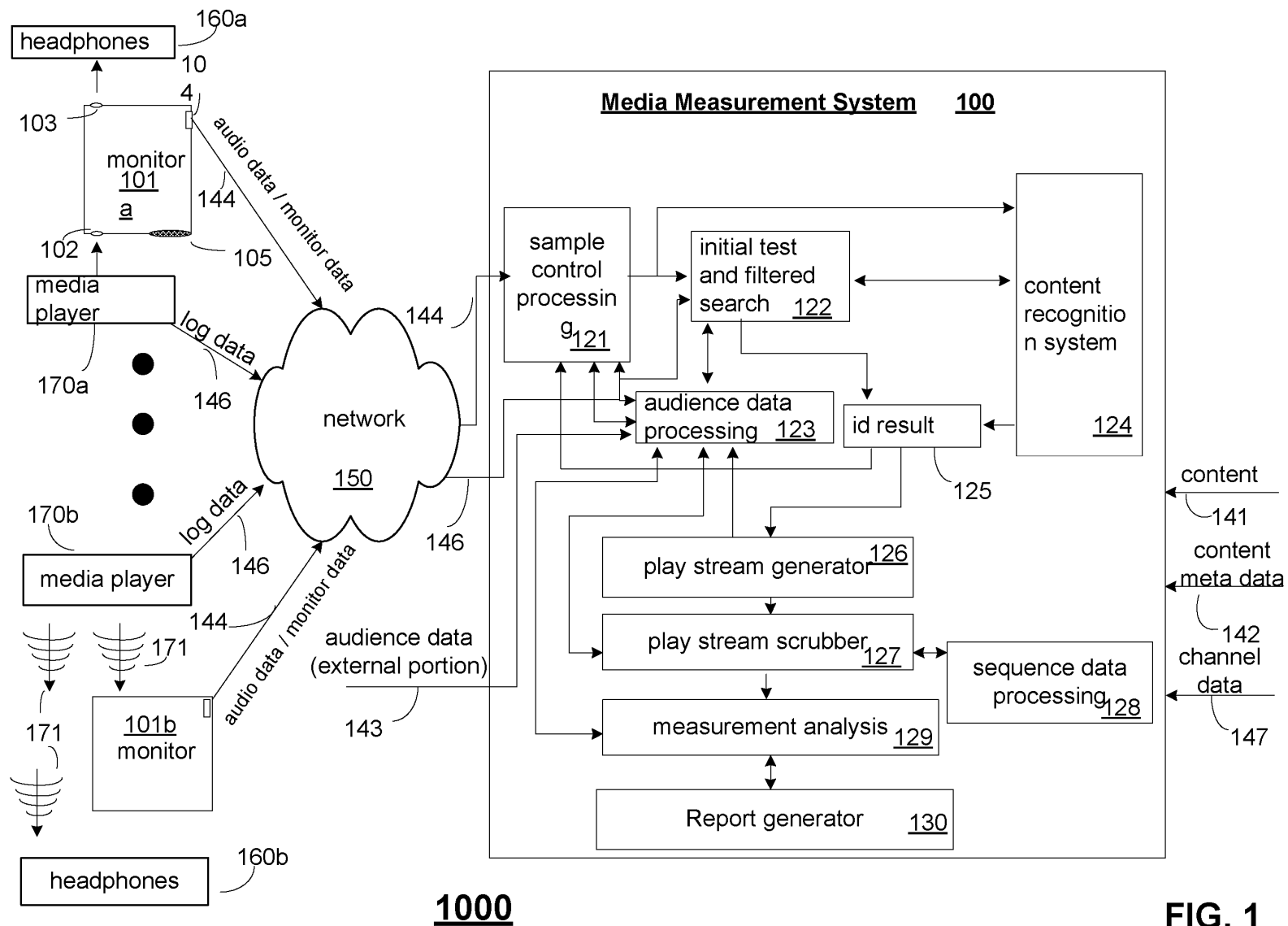
[0062] **Figure 7** shows an example of a computer system 700 that may be used to execute instruction code contained in a computer program product 760 in accordance with an embodiment of the present invention. Computer program product 760 comprises executable code in an electronically readable medium 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.



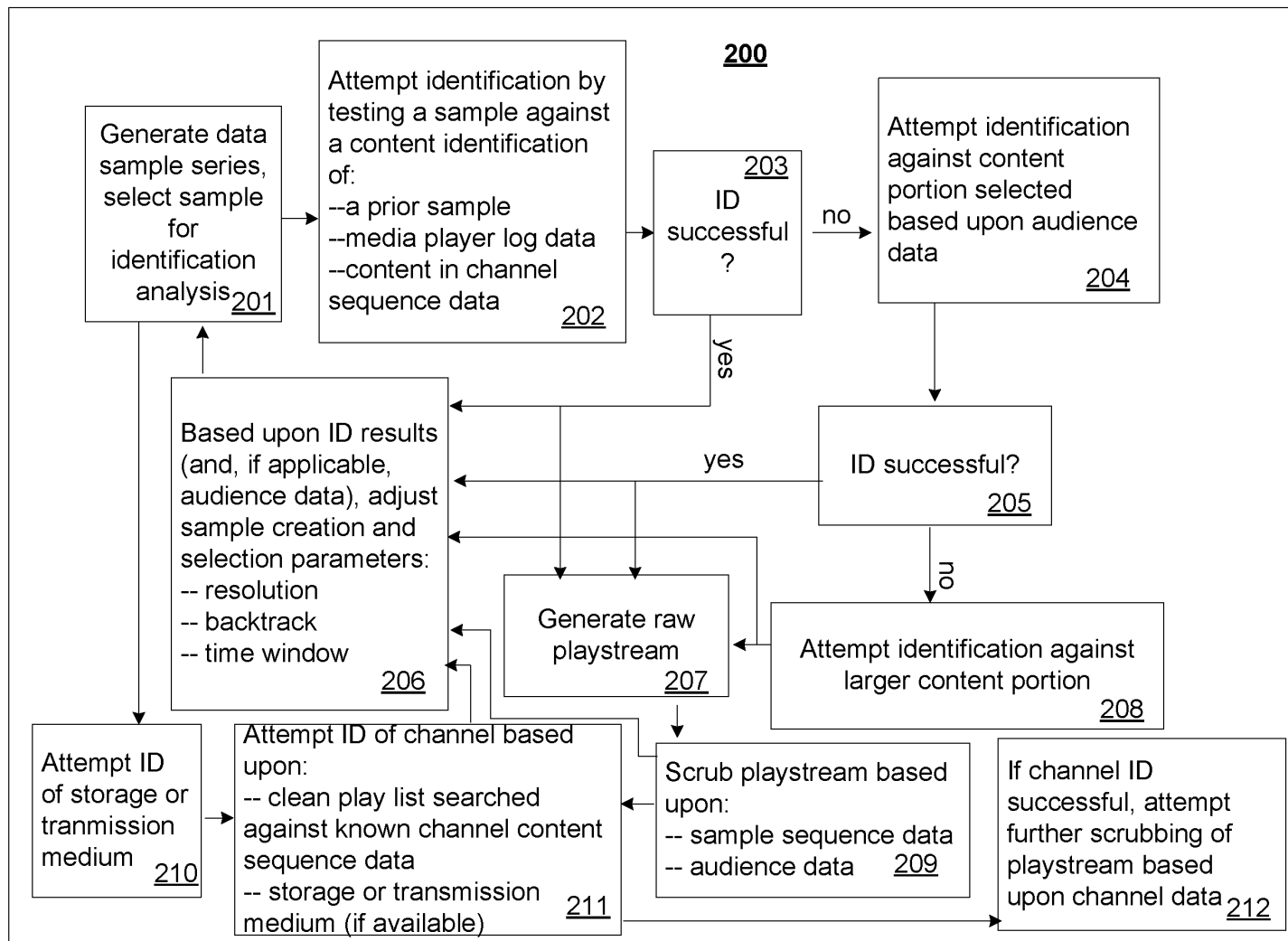


FIG. 2

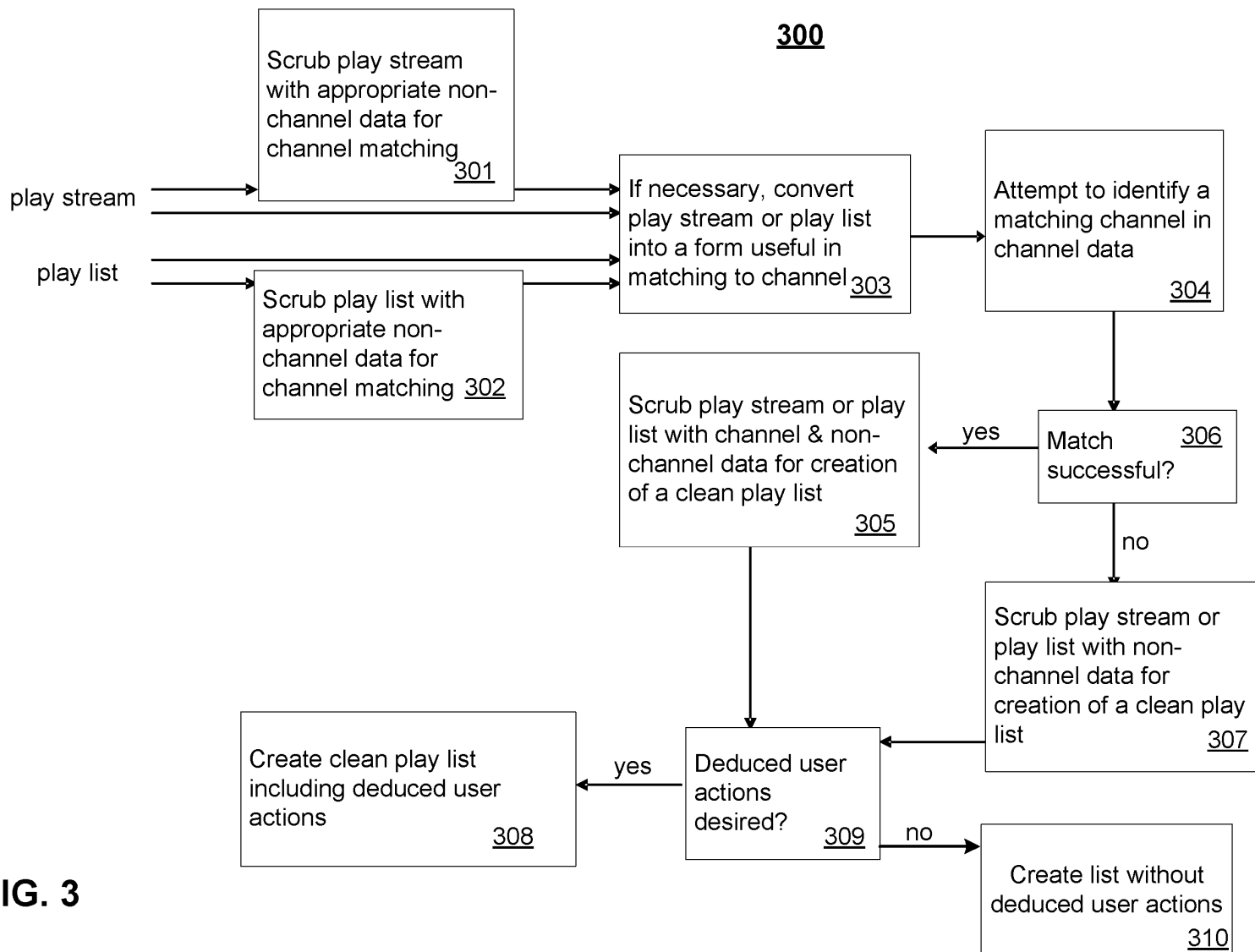


FIG. 3

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

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

ssd

ssd = "sample sequence data"

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

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	TVprgm27	(0)+29
14	t_0+13	TVprgm27	(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	TVprgm28	(0)+2

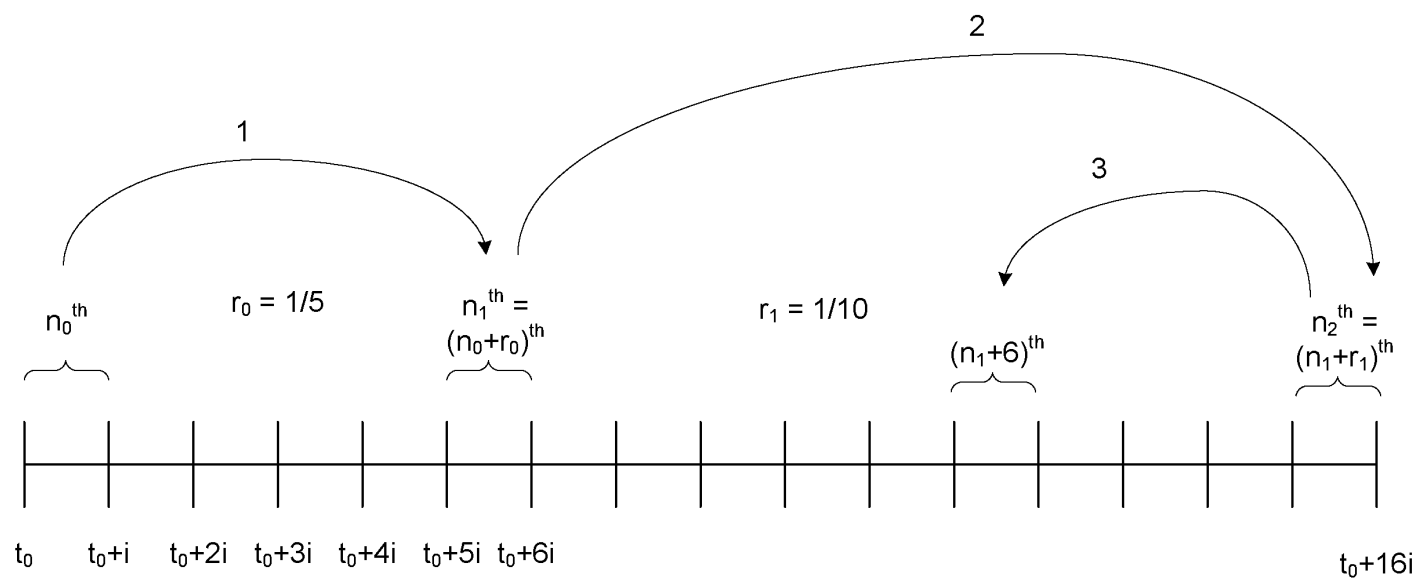
560				
Clean Play List				
row	start log time	end log time	content ID	content offset
1	t_0	t_0+2	TVprgm27	(0)
2	t_0+2	t_0+5	none	n/a
3	t_0+5	t_0+7	TVprgm27	(0)+2
4	t_0+7	t_0+9	TVprgm27	(0)+9
5	t_0+9	t_0+11	TVprgm27	(0)+9
6	t_0+11	t_0+12	none	n/a
7	t_0+12	t_0+14	TVprgm27	(0)+29
8	t_0+14	t_0+15	ad23	(0)
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	TVprgm28	(0)

570			
Channel Data for TV C4			
row	start time	end time	content ID
1	C(0)	C(0)+31	TVprgm27
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	TVprgm28

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	TVprgm27	(0)
2	t_0+2	t_0+5	<pause for 3 units>	n/a
3	t_0+5	t_0+7	TVprgm27	(0)+2
4	t_0+7	t_0+7	<skip frwrd 5 units>	n/a
5	t_0+7	t_0+9	TVprgm27	(0)+9
6	t_0+9	t_0+9	<skip bckwrd 2 units>	n/a
7	t_0+9	t_0+11	TVprgm27	(0)+9
8	t_0+11	t_0+12	<fast frwrd 18 units>	n/a
9	t_0+12	t_0+14	TVprgm27	(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	TVprgm28	(0)

FIG. 5

+



Sheet 6 of 7

600

FIG. 6

+

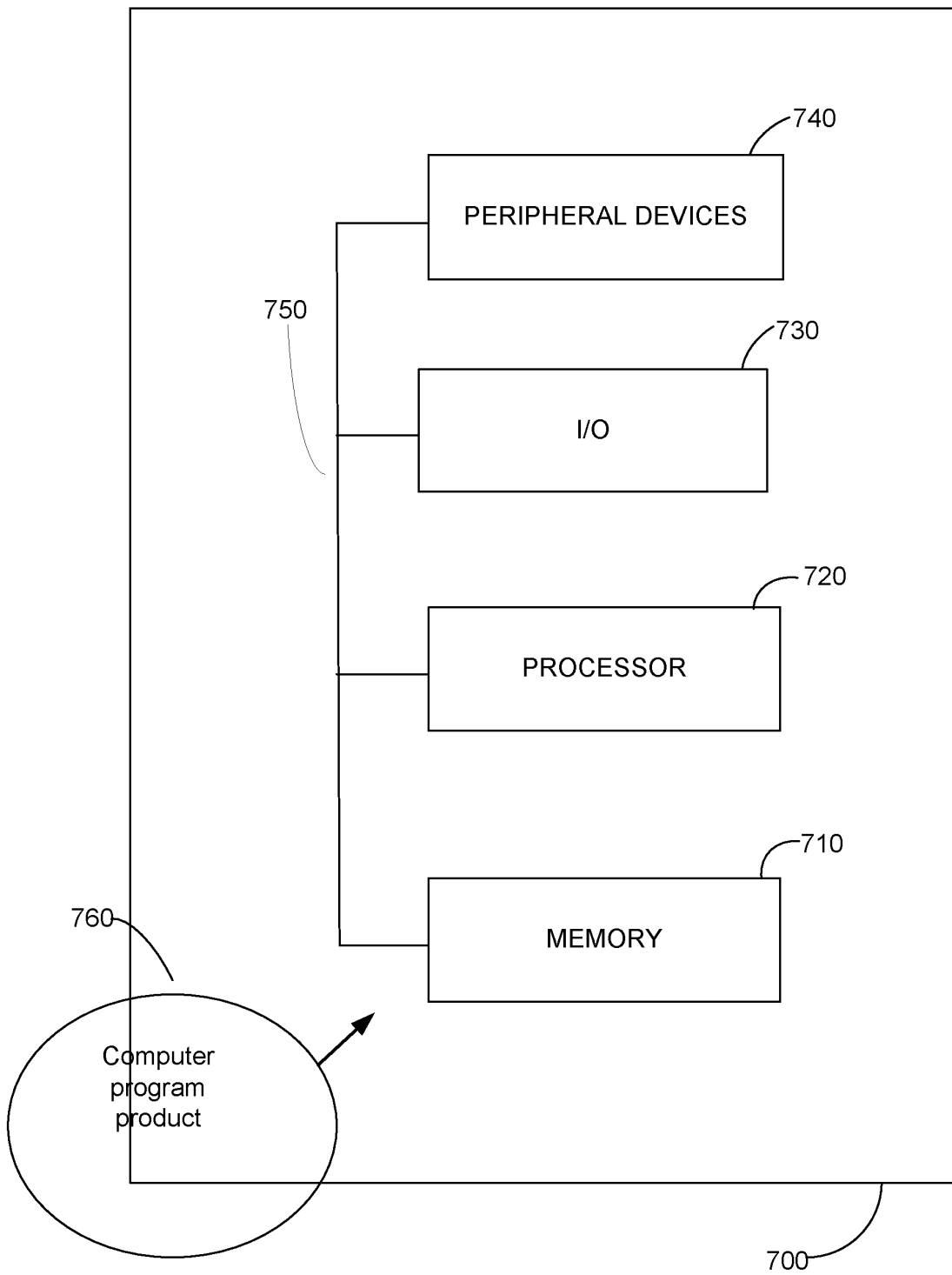


FIG. 7

REMARKS

Prior to examination on the merits, Claims 1-12 have been cancelled and new Claims 13-29 have been added. Therefore, Claims 13-29 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. 10004-2000107.

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 ~~striketrough~~ or enclosed in [[double brackets]]:

1-12. (Cancelled)

13. (New) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, using the one or more computers, a next sample of the video data for attempted identification of a media content item corresponding to the next sample by adjusting a length of a time window of the next sample based at least in part upon a result of an attempt using the one or more computers to identify a first prior sample as corresponding to a media content item stored in a computerized database of reference content; wherein, if the attempt to identify the first prior sample indicates a result that is different than a result of an attempt to identify a second prior sample, then the time length window of the next sample is changed relative to a time window of the first prior sample.

14. (New) The method of claim 13 wherein determining comprises selecting a format of a sample.

15. (New) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to requirements of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting video parameters corresponding to one of a plurality of available content recognition algorithms based at least in part upon an identification result corresponding to the n'th sample.

16. (New) The method of claim 14 wherein:

selecting a format includes selecting video parameters corresponding to settings of a content recognition algorithm; and

determining comprises, for a sample subsequent to an n'th sample, selecting a setting from a plurality of settings of a content recognition algorithm based at least in part upon an identification result corresponding to the n'th sample.

17. (New) The method of claim 13 wherein channel data is used in determining the next sample, the channel data relating to recently identified samples.

18. (New) The method of claim 13 wherein content data is used in determining the next sample, the content data relating one or more recently identified samples.

19. (New) The method of claim 18 wherein content data includes at least one of content type and content length.

20. (New) The method of claim 13 wherein sample sequence data is used in determining the next sample, the sample sequence data relating to recently identified samples.

21. (New) The method of claim 13 wherein log data is used in determining the next sample, the log data relating to a media player of an audience member using the monitoring device.

22. (New) The method of claim 13 wherein location data is used in determining the next sample, the location data relating to a media player of an audience member using the monitoring device.

23. (New) A media measurement method comprising:

receiving, at one or more computers, video data from a monitoring device, the video data being divisible into samples; and

determining, using the one or more computers, a next sample for attempted identification based at least in part upon a result of an attempt using the one or more computers to identify prior samples against a computerized database of known content wherein determining the next sample comprises selecting a relative time location of the next sample within the video data such that if a result of attempting to identify a first prior sample against the computerized database of known content differs from a result of attempting to identify a second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be between a relative time location of the first prior sample and a relative time location of the second prior sample.

24. (New) The method of claim 23 further comprising, for a series of samples of the video data:

determining a sample by selecting an $(n \pm r)$ 'th sample for to be submitted for content recognition wherein r is determined at least in part based upon an identification result corresponding to the n 'th sample.

25. (New) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample does not indicate an identification.

26. (New) The method of claim 24 wherein the magnitude of r is increased from a prior value if the identification result corresponding to the n 'th sample indicates absence of any media content.

27. (New) The method of claim 26 further comprising: depending upon identification results corresponding to an n 'th and an $(n \pm r)$ 'th sample, determining whether any samples captured between the n 'th and the $(n \pm r)$ 'th sample should be submitted for a content recognition attempt.

28. (New) The method of claim 27 further comprising:

submitting one or more samples captured between the n 'th and the $(n \pm r)$ 'th sample for a content identification attempt if the identification results corresponding to the n 'th and $(n \pm r)$ 'th sample do not match.

29. (New) The method of claim 23 wherein: if the result of attempting to identify the first prior sample against the computerized database of known content does not differ from the result of attempting to identify the second prior sample against the computerized database of known content, then the relative time location of the next sample within the video data is selected to be after relative time locations of the first and second prior samples.

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification as follows, where additions are underlined and deletions are indicated by ~~striketrough~~ 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.: 10004-2000107
(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 7 of this paper.

Doc Code: Oath

Document Description: Oath or declaration filed

PTO/AIA/08 (06-12)

Approved for use through 01/31/2014. OMB 0651-0032

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)		Attorney Docket Number	10004-2000104	
		First Named Inventor	Jonathan S. Steuer	
COMPLETE IF KNOWN				
☐ Declaration Submitted With Initial Filing	OR	☒ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(i)) required)	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.

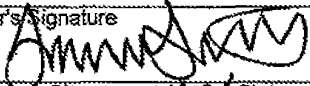
[Page 1 of 2]

This collection of information is required by 35 U.S.C. 116 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.

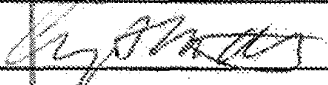
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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	☒	The address associated with Customer Number:	51417	OR	☐	Correspondence address below
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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		State		Country		
~~NEW YORK~~ NEW YORK		NEW YORK		USA		
Mailing Address						
72 E 3RD ST APT 2B						
City		State		Zip		Country
NEW YORK		NY		10003-0206		USA
☐ Additional inventors are being named on the <u>1</u> supplemental sheet(s) PTO/AIA/10 attached hereto						

[Page 2 of 2]

SUPPLEMENTAL SHEET FOR DECLARATION	ADDITIONAL INVENTOR(S)	Page <u>3</u> of <u>3</u>
	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
Mailing Address				
894 GUERRERO ST				
City	SAN FRANCISCO	State	CA	Zip
				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 this 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.

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.

[Page 1 of 2]

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

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.

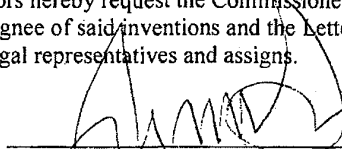
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in 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.

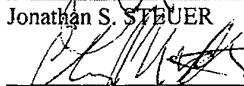
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any 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

Date


Jonathan S. STEUER


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 Delaware 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 have been held and enjoyed by the assignor, had this sale and assignment not been made.

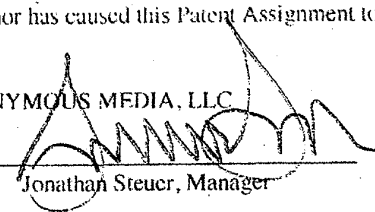
AND for the same consideration, said assignor hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor are the sole and lawful owners of the entire right, title and interest in and 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: 

Jonathan Steuer, Manager

Date: 1 DEC 2010