



- (51) International Patent Classification: H04N 7/173 (201 1.01)
- (21) International Application Number: PCT/US20 13/069721
- (22) International Filing Date: 12 November 2013 (12.1 1.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 61/725,421 12 November 2012 (12. 11.2012) US
- (71) Applicant: MOONTUNES, INC. [US/US]; 2800 Sand Hill Road, Suite 160, Menlo Park, CA 94025 (US).
- (72) Inventors: MCNAMEE, Roger; 2800 Sand Hill Road, Suite 160, Menlo Park, CA 94025 (US). EVANS, Glenn; 2800 Sand Hill Road, Suite 160, Menlo Park, CA 94025 (US). FREDERICK, Mark, Richards; MobileRider LLC, 9062 Greenhills Drive, Sandy, UT 84093-5937 (US).
- (74) Agents: LOVEJOY, Brett, A. et al; Morgan Lewis & Bockius LLP, 2 Palo Alto Square, 3000 El Camino Real, Suite 700, Palo Alto, CA 94306 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, ES, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

[Continued on nextpage]

(54) Title: SYSTEMS AND METHODS FOR COMMUNICATING A LIVE EVENT TO USERS USING THE INTERNET

(57) Abstract: Systems and methods for distributing an audio/visual feed of a live event include mixing ambient audio signals, from ambient microphones monitoring the live event, with sound board feed from the event public address system, thereby forming a mixed audio signal. A video input signal is received at each video input in a plurality of video inputs at a video board from corresponding cameras recording the event. One such video input signal is selected as the video board output and is combined with the mixed audio signal thereby producing an audio/visual signal. This signal is encoded using a video codec, at each of several bitrates, and an audio codec, thereby forming bitrate streams each comprising the video portion of the audio/visual signal at a unique bitrate. The streams are received by a satellite router and transmitted to a satellite which sends them to one or more downlink servers for Internet distribution.

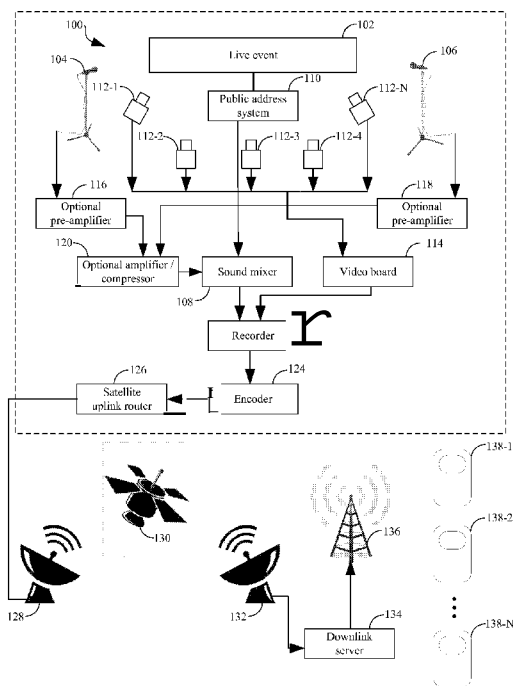


Figure 1

WO 2014/075087 A3



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
KM, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments (Rule 48.2(h))*

**Published:**

— *with international search report (Art. 21(3))*

**(88) Date of publication of the international search report:**  
10 July 2014

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/069721

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - H04N 7/1 73 (2014.01)****USPC - 725/105**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - H04N 7/12, 7/16, 7/173, 21/2343 (2014.01)

USPC - 725/63, 725/86, 725/105, 725/135

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CPC - H04N 7/12, 7/16, 7/173 (2014.02)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase, Google Patents, ProQuest

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/0078825 A1 (MURPHY) 22 April 2004 (22.04.2004) entire document.	1-6, 36-40
Y	US 2008/01 15181 A1 (RYCKMAN et al) 15 May 2008 (15.05.2008) entire document.	1-6, 36-40
Y	US 2007/0288978 A1 (PIZZURRO et al) 13 December 2007 (13.12.2007) entire document.	1-6, 36-40
Y	US 7,653,924 B1 (DENG et al) 26 January 2010 (26.01.2010) entire document.	6, 40
A	US 2002/0053078 A1 (HOLTZ et al) 02 May 2002 (02.05.2002) entire document.	1-6, 36-40
A	US 7,079,176 B1 (FREEMAN et al) 18 July 2006 (18.07.2006) entire document.	1-6, 36-40

 Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	T ' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

15 April 2014

Date of mailing of the international search report

12 MAY 2014

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/069721

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
- 2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
- 3.  Claims Nos.: 7-35, 41-66  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

- 1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
- 3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
- 4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.