(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 September 2010 (30.09.2010)

PCT

(10) International Publication Number
WO 2010/111093 A1

(51) International Patent Classification:
H04N 7/26 (2006.01)

(21) International Application Number:
PCT/US2010/027699

(22) International Filing Date:
17 March 2010 (17.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/210,888 23 March 2009 (23.03.2009) US
12/538,090 7 August 2009 (07.08.2009) US

(71) Applicant *(for all designated States except US)*: **ONLIVE, INC.** [US/US]; 181 Lytton Avenue, Palo Alto, CA 94301 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PERLMAN, Stephen, G.** [US/US]; 181 Lytton Avenue, Palo Alto, CA 94301 (US). **VAN DER LAAN, Roger** [NL/US]; 1310 University Drive, Menlo Park, CA 94025 (US). **COTTER, Timothy** [US/US]; 181 Matadero Drive, Sunnyvale, CA 94086 (US). **FURMAN, Scott** [US/US]; 123 Hedge Road, Menlo Park, CA 94025 (US). **MCCOOL, Robert** [US/US]; 360 Sherwood Way, Menlo Park, CA 94025 (US). **BUCKLEY, Ian** [US/US]; 73 Highland Avenue, San Carlos, CA 94070 (US).

(74) Agents: **VENCENT, Lester, J.** et al.; Blakely, Sokoloff, Taylor & Zafman LLP, 1279 Oakmead Parkway, Sunnyvale, CA 94085-4040 (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, 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, IN, IS, JP, KE, KG, KM, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

(54) **Title**: SYSTEM AND METHOD FOR SELECTING A VIDEO ENCODING FORMAT BASED ON FEEDBACK DATA

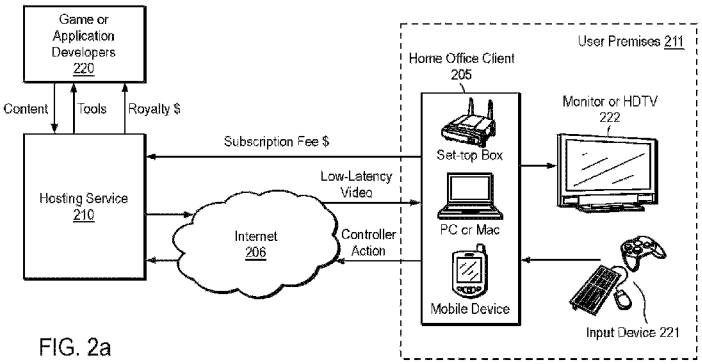


FIG. 2a

(57) **Abstract**: A computer-implemented system and method for performing video compression are described. For example, a method according to one embodiment of the invention comprises encoding a plurality of video frames or portions thereof according to a first encoding format, transmitting the plurality of encoded video frames or portions to a client device, receiving feedback information from the client device, the feedback information usable to determine whether data contained in the video frames or portions has been successfully received and/or decoded, determining latency associated with communicating with the client device, in response to detecting that one or more video frames or portions thereof have not been successfully received and/or decoded (1) if the latency is above a specified threshold, then encoding a new video frame or portion thereof according to a second encoding format, the second encoding format comprising a format which is not dependent on previously-transmitted video frames or portions thereof

WO 2010/111093 A1