

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2022/225651 A1

(43) International Publication Date
27 October 2022 (27.10.2022)

(51) International Patent Classification:

H04L 67/02 (2022.01) H04N 21/83 (2011.01)
H04N 21/43 (2011.01) H04N 21/84 (2011.01)

(21) International Application Number:

PCT/US2022/022107

(22) International Filing Date:

28 March 2022 (28.03.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/176,768 19 April 2021 (19.04.2021) US
17/704,336 25 March 2022 (25.03.2022) US

(71) Applicant: **TENCENT AMERICA LLC** [US/US]; 2747
Park Boulevard, Palo Alto, California 94306 (US).

(72) Inventor: **SODAGAR, Iraj**; c/o Tencent America LLC,
2747 Park Boulevard, Palo Alto, California 94306 (US).

(74) Agent: **RABENA, John, F.** et al.; Sughrue Mion, PLLC,
2000 Pennsylvania Ave., N.W., Suite 9000, Washington,
District of Columbia 20006 (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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH,
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: SIGNALING SCHEMES IN EVENTS MESSAGE TRACKS

(57) Abstract: Systems, devices, and methods for obtaining an event message track configured to be processed by a Dynamic Adaptive Streaming over HyperText Transfer Protocol (DASH) client for displaying media content; obtaining a scheme identifier box identifying one or more event schemes that appear in the event message track, wherein each event scheme of the one or more event schemes specifies at least one parameter for processing an event included in the event message track; and providing the event message track to the DASH client or displaying media content based on the event message track according to the one or more event schemes.



WO 2022/225651 A1