

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(10) International Publication Number
WO 2018/093840 A8

(43) International Publication Date
24 May 2018 (24.05.2018)

- (51) **International Patent Classification:**
H04N 13/00 (2006.01) G06T 17/10 (2006.01)
- (21) **International Application Number:**
PCT/US2017/061714
- (22) **International Filing Date:**
15 November 2017 (15.11.2017)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/423,319 17 November 2016 (17.11.2016) US
- (71) **Applicant: INTEL CORPORATION** [US/US]; 2200 Mission College Boulevard, Santa Clara, California 95054 (US).
- (72) **Inventor: BOYCE, Jill M.**; 1976 SW Abercrombie Place, Portland, Oregon 97225 (US).
- (74) **Agent: MALLIE, Michael, J.** et al.; Womble Bond Dickinson (US) LLP, P.O. Box 7037, Atlanta, Georgia 30357-0037 (US).

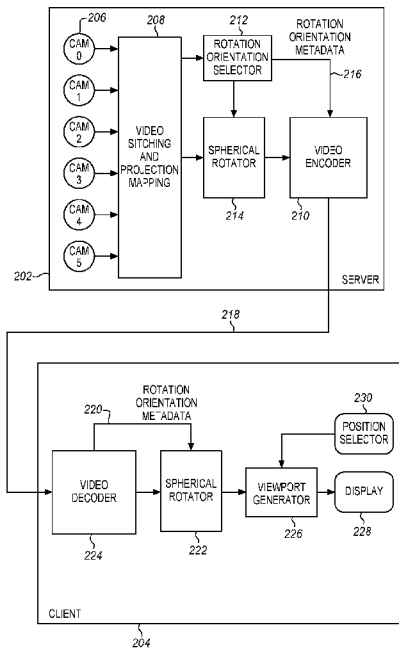
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, 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, 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, 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).

Declarations under Rule 4.17:
— of inventorship (Rule 4.17(iv))

(54) **Title:** SPHERICAL ROTATION FOR ENCODING WIDE VIEW VIDEO

(57) **Abstract:** Spherical rotation is described for encoding a video that has a wide field of view, such as a spherical or hemispherical video. One example relates to receiving encoded video including rotation orientation metadata, decoding the video, extracting the rotation orientation metadata, rotating the decoded video based on the rotation orientation metadata, generating a view of the rotated decoded video, and buffering the generated view for display.

FIG. 2



WO 2018/093840 A8

Published:

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

(48) Date of publication of this corrected version:

31 May 2019 (31.05.2019)

(15) Information about Correction:

see Notice of 31 May 2019 (31.05.2019)