



- (51) **International Patent Classification:**
H04N 7/26 (2006.01) *H04N 7/50* (2006.01)
H04N 7/36 (2006.01)
- (21) **International Application Number:**
PCT/US2012/047066
- (22) **International Filing Date:**
17 July 2012 (17.07.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/508,659 17 July 2011 (17.07.2011) US
61/530,819 2 September 2011 (02.09.2011) US
61/549,480 20 October 2011 (20.10.2011) US
13/550,384 16 July 2012 (16.07.2012) US
- (71) **Applicant** (for all designated States except US): **QUALCOMM INCORPORATED** [US/US]; 5775 Morehouse Drive, Attn: International IP Administration, San Diego, California 92121-1714 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants** (for US only): **CHEN, Ying** [CN/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **KARCZEWICZ, Marta** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

WANG, Ye-Kui [CN/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).

- (74) **Agent:** **FISH, Jamieson W.**; Shumaker & Sieffert, P.A., 1625 Radio Drive, Suite 300, Woodbury, MN 55125 (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, QA, RO, RS, RU, RW, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

- (54) **Title:** SIGNALING PICTURE SIZE IN VIDEO CODING

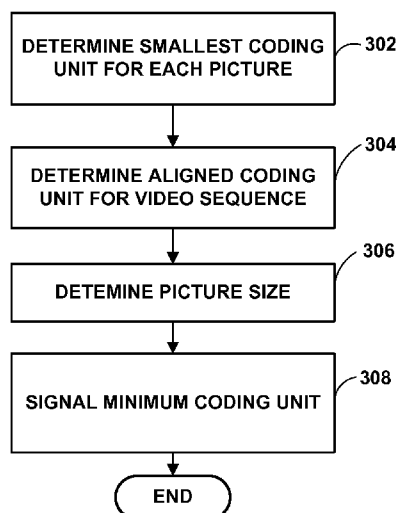


FIG. 3

- (57) **Abstract:** A video encoder is configured to determine a picture size for one or more pictures included in a video sequence. The picture size associated with the video sequence may be a multiple of an aligned coding unit size for the video sequence. In one example, the aligned coding unit size for the video sequence may comprise a minimum coding unit size where the minimum coding unit size is selected from a plurality of smallest coding unit sizes corresponding to different pictures in the video sequence. A video decoder is configured to obtain syntax elements to determine the picture size and the aligned coding unit size for the video sequence. The video decoder decodes the pictures included in the video sequence with the picture size, and stores the decoded pictures in a decoded picture buffer.



**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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