



(51) International Patent Classification:

H04N 19/70 (2014.01) H04N 19/44 (2014.01)
H04N 19/149 (2014.01) H04N 19/46 (2014.01)

(21) International Application Number:

PCT/US2013/077267

(22) International Filing Date:

20 December 2013 (20.12.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/749,866 7 January 2013 (07.01.2013) US
14/061,130 23 October 2013 (23.10.2013) US

(71) Applicant: **QUALCOMM INCORPORATED** [US/US];
ATTN: International IP Administration, 5775 Morehouse
Drive, San Diego, California 92121-1714 (US).

(72) Inventor: **WANG, Ye-Kui**; 5775 Morehouse Drive, San
Diego, California 92121-1714 (US).

(74) Agent: **BUSCHBACH, Michael A.**; Shumaker & Sieffert,
P.A., 1625 Radio Drive, Suite 300, Woodbury, Minnesota
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, 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, IN, 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,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: CONDITIONAL SIGNALING OF PICTURE ORDER COUNT TIMING INFORMATION FOR VIDEO TIMING IN
VIDEO CODING

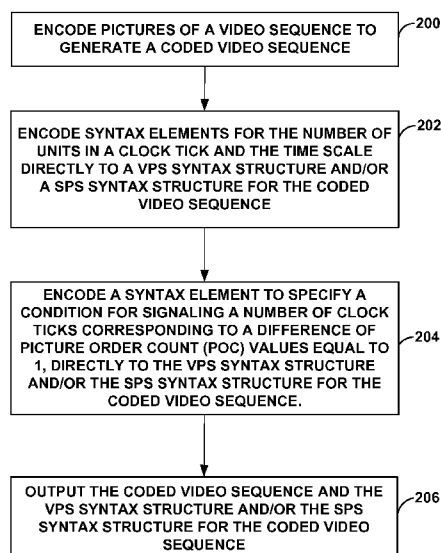


FIG. 5

(57) Abstract: In an example, the disclosure provides for en-
coding pictures of a video sequence to generate a coded video
sequence comprising the encoded pictures and signaling tim-
ing parameters for the coded video sequence by directly sig-
naling a condition for signaling a number of clock ticks cor-
responding to a difference of picture order count (POC) val-
ues equal to 1 in at least one of a video parameter set (VPS)
syntax structure referenced by the coded video sequence and
a sequence parameter set (SPS) syntax structure referenced by
the coded video sequence. Another example provides for re-
ceiving timing parameters for a coded video sequence that in-
clude a condition for signaling a number of clock ticks cor-
responding to a difference of POC values equal to 1 directly
in at least one of a VPS syntax structure referenced by the
coded video sequence and an SPS syntax structure referenced
by the coded video sequence.



-
- *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))*