



- (51) **International Patent Classification:**  
*H04N 7/36* (2006.01) *H04N 7/26* (2006.01)
- (21) **International Application Number:**  
PCT/US2013/040938
- (22) **International Filing Date:**  
14 May 2013 (14.05.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
61/656,877 7 June 2012 (07.06.2012) US  
13/828,354 14 March 2013 (14.03.2013) US
- (71) **Applicant:** QUALCOMM INCORPORATED [US/US];  
ATTN: International IP Administration, 5775 Morehouse  
Drive, San Diego, California 92121-1714 (US).
- (72) **Inventors:** RAMASUBRAMONIAN, Adarsh Krishnan;  
5775 Morehouse Drive, San Diego, California 92121-1714  
(US). WANG, Ye-Kui; 5775 Morehouse Drive, San  
Diego, California 92121-1714 (US). CHEN, Ying; 5775  
Morehouse Drive, San Diego, California 92121-1714 (US).
- (74) **Agent:** CREERON, Kerry T.; 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, 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, PA, 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).

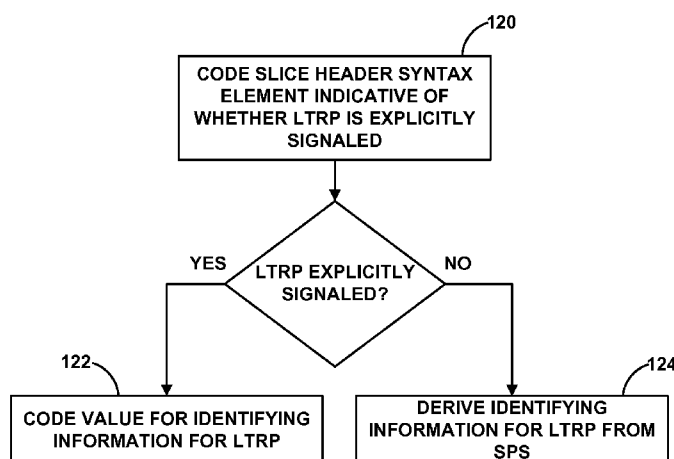
**Declarations under Rule 4.17:**

- 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))

(54) **Title:** SIGNALING DATA FOR LONG TERM REFERENCE PICTURES FOR VIDEO CODING



**FIG. 5**

(57) **Abstract:** A video coder codes a slice header for a slice of video data. The slice header includes a syntax element comprising identifying information for a long term reference picture, wherein the identifying information is explicitly signaled in the slice header or derived from a sequence parameter set corresponding to the slice. When the syntax element indicates that the identifying information for the long term reference picture is explicitly signaled, to code the slice header, the video coder is further configured to code a value for the identifying information for the long term reference picture in the slice header.