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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
29 January 2015 (29.01.2015)

WIPO | PCT

(10) International Publication Number
WO 2015/010226 A1

(51) International Patent Classification:
H04N 19/51 (2014.01)

(21) International Application Number:
PCT/CN2013/001639

(22) International Filing Date:
24 December 2013 (24.12.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/858,089	24 July 2013 (24.07.2013)	US
61/872,540	30 August 2013 (30.08.2013)	US
61/913,031	6 December 2013 (06.12.2013)	US

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

(72) Inventors; and

(71) Applicants *(for US only)*: **ZHANG, Li** [CN/US]; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **CHEN, Ying** [CN/US]; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **THIRUMALAI, Vijayaraghavan** [IN/US]; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **LIU, Hongbin** [CN/CN]; 2601 North Tower Beijing Kerry Center, No. 1 Guang Hua Road, Chaoyang, Beijing 10020 (CN).

(74) Agent: **LEE AND LI - LEAVEN IPR AGENCY LTD.**; Room 1008, Tower W1, Oriental Plaza, 1 East Chang An Avenue, Dongcheng, Beijing 100738 (CN).

(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.

[Continued on next page]

(54) Title: SIMPLIFIED ADVANCED MOTION PREDICTION FOR 3D-HEVC

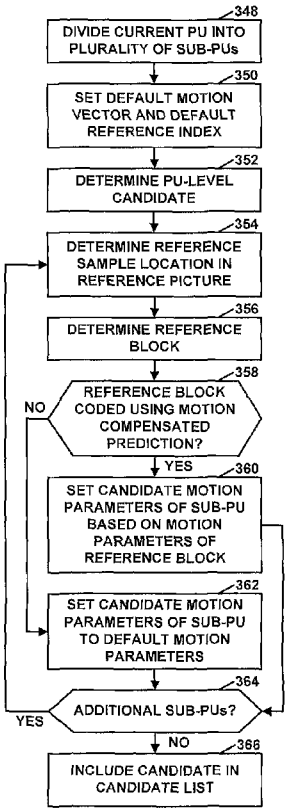

FIG. 19

(57) Abstract: A video coder determines a candidate for inclusion in a candidate list for a current prediction unit (PU). The candidate is based on motion parameters of a plurality of sub-PUs of the current PU. If a reference block corresponding to a sub-PU is not coded using motion compensated prediction, the video coder sets the motion parameters of the sub-PU to default motion parameters. For each respective sub-PU from the plurality of sub-PUs, if a reference block for the respective sub-PU is not coded using motion compensated prediction, the motion parameters of the respective sub-PU are not set in response to a subsequent determination that a reference block for any later sub-PU in an order is coded using motion compensated prediction.

WO 2015/010226 A1

(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).

Published:

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