

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 October 2020 (22.10.2020)



(10) International Publication Number
WO 2020/214953 A1

(51) International Patent Classification:

H04N 7/26 (2006.01) H04N 19/44 (2014.01)
H04N 19/172 (2014.01) H04N 19/50 (2014.01)
H04N 19/30 (2014.01)

(21) International Application Number:

PCT/US2020/028768

(22) International Filing Date:

17 April 2020 (17.04.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/836,598 19 April 2019 (19.04.2019) US
16/851,052 16 April 2020 (16.04.2020) US

(71) Applicant: **TENCENT AMERICA LLC** [US/US]; 2747
Park Boulevard, Palo Alto, California 94306 (US).

(72) Inventors: **LI, Guichun**; c/o TENCENT AMERICA LLC,
2747 Park Boulevard, Palo Alto, California 94306 (US). **LI,
Xiang**; c/o TENCENT AMERICA LLC, 2747 Park Boule-
vard, Palo Alto, California 94306 (US). **XU, Xiaozhong**; c/
o TENCENT AMERICA LLC, 2747 Park Boulevard, Pa-
lo Alto, California 94306 (US). **LIU, Shan**; c/o TENCENT

AMERICA LLC, 2747 Park Boulevard, Palo Alto, Califor-
nia 94306 (US).

(74) Agent: **MA, Johnny** et al.; Oblon, McClelland, Maier &
Neustadt, L.L.P., 1940 Duke Street, Alexandria, Virginia
22314 (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, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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,

(54) Title: METHOD AND APPARATUS FOR VIDEO CODING

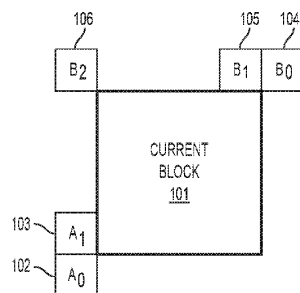


FIG. 1

(Related Art)

(57) Abstract: Aspects of the disclosure provide methods and apparatuses for video encoding/decoding. In some examples, an apparatus for video decoding includes receiving circuitry and processing circuitry. For example, the processing circuitry decodes prediction information of a current block in a current picture from a coded video bitstream. The prediction information is indicative of an inter prediction mode with a potential usage of a refinement technique based on a first reference picture and a second reference picture. Then, the processing circuitry determines whether a first equal weighting condition of chroma components from the first reference picture and the second reference picture is satisfied. In response to a failure to satisfy the first equal weighting condition of the chroma components from the first reference picture and the second reference picture, the processing circuitry disables the refinement technique in a reconstruction of a sample in the current block.

[Continued on next page]

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))*