

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 December 2020 (03.12.2020)



(10) International Publication Number
WO 2020/242883 A1

(51) International Patent Classification:

H04N 19/103 (2014.01) H04N 19/96 (2014.01)
H04N 19/463 (2014.01) H04N 19/157 (2014.01)
H04N 19/70 (2014.01) H04N 19/46 (2014.01)
H04N 19/517 (2014.01)

(21) International Application Number:

PCT/US2020/034002

(22) International Filing Date:

21 May 2020 (21.05.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/852,516 24 May 2019 (24.05.2019) US
16/879,462 20 May 2020 (20.05.2020) US

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

(72) Inventors: **HUANG, Han**; 5775 Morehouse Drive, San
Diego, CA 92121-1714 (US). **CHIEN, Wei-Jung**; 5775
Morehouse Drive, San Diego, CA 92121-1714 (US).
SEREGIN, Vadim; 5775 Morehouse Drive, San Diego,
CA 92121-1714 (US). **KARCZEWICZ, Marta**; 5775
Morehouse Drive, San Diego, CA 92121-1714 (US).

(74) Agent: **LOOMIS, Timothy, F.**; Shumaker & Sieffert, P.A.,
1625 Radio Drive, Suite 100, 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, 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,
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))

(54) Title: MERGE MODE CODING FOR VIDEO CODING

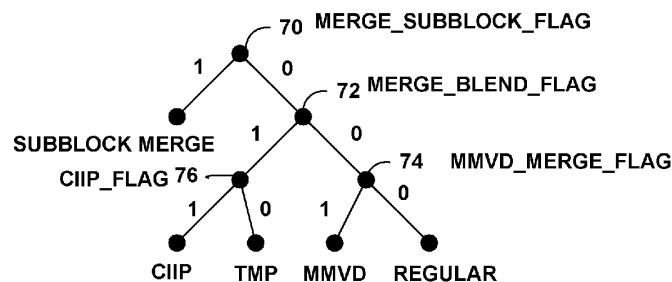


FIG. 11

(57) Abstract: An example device for coding video data determines for a first block of the video data whether to use a sub-block merge mode. Based on the determination not to use the sub-block merge mode for the first block, the device determines whether to use a merge mode with blending for the first block. Based on the determination to use the merge mode with blending for the first block, the device codes the first block with the merge mode with blending.



WO 2020/242883 A1