



(51) International Patent Classification:
H04N 19/132 (2014.01)

(21) International Application Number:
PCT/CN2024/101981

(22) International Filing Date:
27 June 2024 (27.06.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/EP2023/067439
27 June 2023 (27.06.2023) EP

(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**
[CN/CN]; Huawei Administration Building, Bantian, Long-
gang District, Shenzhen, Guangdong 518129 (CN).

(72) Inventors: **ALSHINA, Elena Alexandrovna**; Huawei Technologies Duesseldorf GmbH, European Research Center, Riesstr. 25, 80992 Munich (DE). **SOLOVYEV, Timofey Mikhailovich**; Huawei Technologies Duesseldorf GmbH, European Research Center, Riesstr. 25, 80992 Munich (DE). **KARABUTOV, Alexander Alexandrovich**; Huawei Technologies Duesseldorf GmbH, European Research Center, Riesstr. 25, 80992 Munich (DE).

(74) Agent: **LEADER PATENT & TRADEMARK FIRM**; 8F-6, Bldg. A, Winland International Center, No. 32 Xizhimen North Street, Haidian District, Beijing 100082 (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,

(54) Title: RE-SAMPLING IN IMAGE COMPRESSION

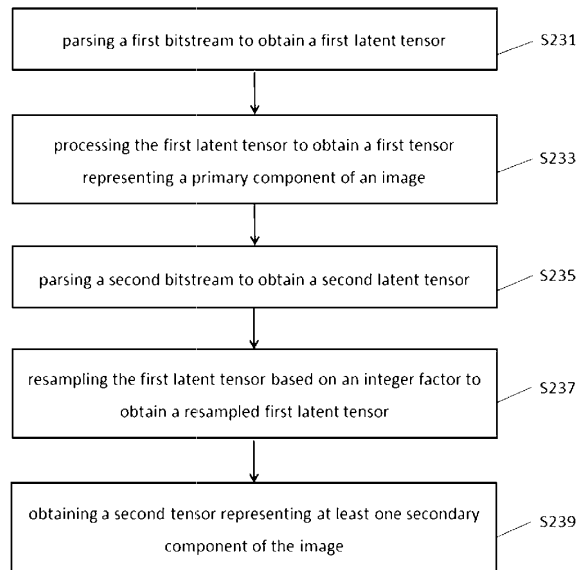


Fig. 21

(57) Abstract: The present disclosure relates to tensor re-sampling in image compression of an image. It is provided a method of reconstructing at least a portion of the image, comprising parsing a first bitstream to obtain a first latent tensor, and processing the first latent tensor to obtain a first tensor representing a primary component of the image. The method further comprises parsing a second bitstream different from the first bitstream to obtain a second latent tensor different from the first latent tensor, re-sampling the first latent tensor based on an integer factor to obtain a re-sampled first latent tensor; and obtaining a second tensor representing at least one secondary component of the image based on the second latent tensor and the re-sampled first latent tensor.

[Continued on next page]

MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))*