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(81) 指定国(除另有指明, 要求每一种可提供的国家保护): 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, 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。

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(54) Title: DECODING METHOD AND APPARATUS, AND DEVICE

(54) 发明名称: 一种解码方法、装置及其设备

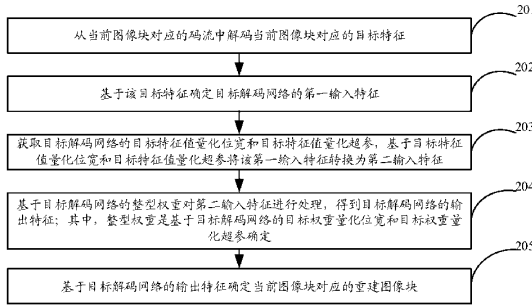


图 2

- 201 Decode a code stream corresponding to the current image block, so as to obtain a target feature corresponding to the current image block
- 202 Determine a first input feature of a target decoding network on the basis of the target feature
- 203 Acquire a target feature value quantization bit width and a target feature value quantization hyper-parameter of the target decoding network, and convert the first input feature into a second input feature on the basis of the target feature value quantization bit width and the target feature value quantization hyper-parameter
- 204 Process the second input feature on the basis of an integer weight of the target decoding network, so as to obtain an output feature of the target decoding network, wherein the integer weight is determined on the basis of a target weight quantization bit width and a target weight quantization hyper-parameter of the target decoding network
- 205 On the basis of the output feature of the target decoding network, determine a reconstructed image block corresponding to the current image block

(57) Abstract: Provided in the present disclosure are a decoding method and apparatus, and a device. The method comprises: decoding a code stream corresponding to the current image block, so as to obtain a target feature corresponding to the current image block; determining a first input feature of a target decoding network on the basis of the target feature; acquiring a target feature value quantization bit width and a target feature value quantization hyper-parameter of the target decoding network, and converting the first input feature into a second input feature on the basis of the target feature value quantization bit width and the target feature value quantization hyper-parameter; processing the second input feature on the basis of an integer weight of the target decoding network, wherein the integer weight is determined on the basis of a target weight quantization bit width and a target weight quantization hyper-parameter; and on the basis of the output feature of the target decoding network, determining a reconstructed image block corresponding to the current image block. By means of the technical solution of the present disclosure, the decoding calculation amount can be reduced on the premise of ensuring the decoding quality.

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NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚
(AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (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)。

本国际公布：
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本公开提供一种解码方法、装置及其设备，该方法包括：从当前图像块对应的码流中解码当前图像块对应的目标特征；基于目标特征确定目标解码网络的第一输入特征；获取目标解码网络的目标特征值量化位宽和目标特征值量化超参，基于目标特征值量化位宽和目标特征值量化超参将第一输入特征转换为第二输入特征；基于目标解码网络的整型权重对第二输入特征进行处理，得到目标解码网络的输出特征；其中，整型权重是基于目标权重量化位宽和目标权重量化超参确定；基于目标解码网络的输出特征确定当前图像块对应的重建图像块。通过本公开技术方案，能够在保证解码质量的前提下，降低解码计算量。