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

(54) 发明名称: 一种编解码方法、装置及其设备

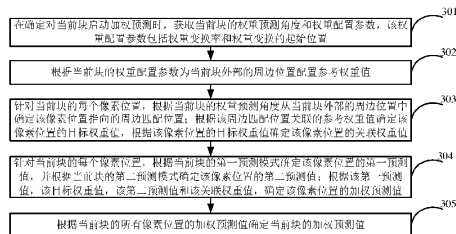


图 3

301 WHEN IT IS DETERMINED TO START WEIGHTED PREDICTION FOR THE CURRENT BLOCK, ACQUIRE A WEIGHT PREDICTION ANGLE AND A WEIGHT CONFIGURATION PARAMETER OF THE CURRENT BLOCK, WHEREIN THE WEIGHT CONFIGURATION PARAMETER COMPRISES A WEIGHT CONVERSION RATE AND A WEIGHT CONVERSION STARTING POSITION

302 CONFIGURE REFERENCE WEIGHT VALUES FOR PERIPHERAL LOCATIONS OUTSIDE OF THE CURRENT BLOCK ACCORDING TO THE WEIGHT CONFIGURATION PARAMETER OF THE CURRENT BLOCK

303 FOR EACH PIXEL LOCATION OF THE CURRENT BLOCK, DETERMINE, FROM AMONG THE PERIPHERAL LOCATIONS OUTSIDE OF THE CURRENT BLOCK AND ACCORDING TO THE WEIGHT PREDICTION ANGLE OF THE CURRENT BLOCK, A PERIPHERAL MATCHED LOCATION TO WHICH THE PIXEL LOCATION POINTS; AND DETERMINE A TARGET WEIGHT VALUE OF THE PIXEL LOCATION ACCORDING TO A REFERENCE WEIGHT VALUE ASSOCIATED WITH THE PERIPHERAL MATCHED LOCATION, AND DETERMINE AN ASSOCIATED WEIGHT VALUE OF THE PIXEL LOCATION ACCORDING TO THE TARGET WEIGHT VALUE OF THE PIXEL LOCATION

304 FOR EACH PIXEL LOCATION OF THE CURRENT BLOCK, DETERMINE A FIRST PREDICTION VALUE OF THE PIXEL LOCATION ACCORDING TO A FIRST PREDICTION MODE OF THE CURRENT BLOCK, AND DETERMINE A SECOND PREDICTION VALUE OF THE PIXEL LOCATION ACCORDING TO A SECOND PREDICTION MODE OF THE CURRENT BLOCK, AND DETERMINE A WEIGHTED PREDICTION VALUE OF THE PIXEL LOCATION ACCORDING TO THE FIRST PREDICTION VALUE, THE TARGET WEIGHT VALUE, THE SECOND PREDICTION VALUE AND THE ASSOCIATED WEIGHT VALUE

305 DETERMINE A WEIGHTED PREDICTION VALUE OF THE CURRENT BLOCK ACCORDING TO WEIGHTED PREDICTION VALUES OF ALL THE PIXEL LOCATIONS OF THE CURRENT BLOCK

(57) Abstract: Provided are an encoding and decoding method and apparatus, an encoding end device and a decoding end device. The method comprises: acquiring a weight prediction angle and a weight configuration parameter, wherein the weight configuration parameter comprises a weight conversion rate and a weight conversion starting position; configuring reference weight values for peripheral locations outside of the current block according to the weight configuration parameter; determining, from among the peripheral locations outside of the current block and according to the weight prediction angle, a peripheral matched location to which a pixel location points; determining a target weight value of the pixel location according to a reference weight value associated with the peripheral matched location, and determining an associated weight value of the pixel location according to the target weight value of the pixel location; determining a first prediction value of the pixel location according to a first prediction mode, and determining a second prediction value of the pixel location according to a second prediction mode; and determining a weighted prediction value of the pixel location according to the first prediction value, the target weight value, the second prediction value and the associated weight value.

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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：本申请提供一种编解码方法、装置、编码端设备以及解码端设备，该方法包括：获取权重预测角度和权重配置参数，其中，权重配置参数包括权重变换率和权重变换的起始位置；根据权重配置参数为当前块外部的周边位置配置参考权重值；根据权重预测角度从当前块外部的周边位置中确定像素位置指向的周边匹配位置；根据周边匹配位置关联的参考权重值确定像素位置的目标权重值，根据像素位置的目标权重值确定像素位置的关联权重值；根据第一预测模式确定像素位置的第一预测值，根据第二预测模式确定像素位置的第二预测值；根据第一预测值，目标权重值，第二预测值和关联权重值，确定像素位置的加权预测值。