

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2020/107921 A1

(43) 国际公布日
2020 年 6 月 4 日 (04.06.2020)

(51) 国际专利分类号:
H04N 19/132 (2014.01)

(21) 国际申请号: PCT/CN2019/098151

(22) 国际申请日: 2019 年 7 月 29 日 (29.07.2019)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
201811458677.4 2018 年 11 月 30 日 (30.11.2018) CN

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(54) Title: IMAGE ENCODING METHOD AND APPARATUS FOR VIDEO SEQUENCE, AND IMAGE DECODING METHOD AND APPARATUS FOR VIDEO SEQUENCE

(54) 发明名称: 视频序列的图像编解码方法和装置

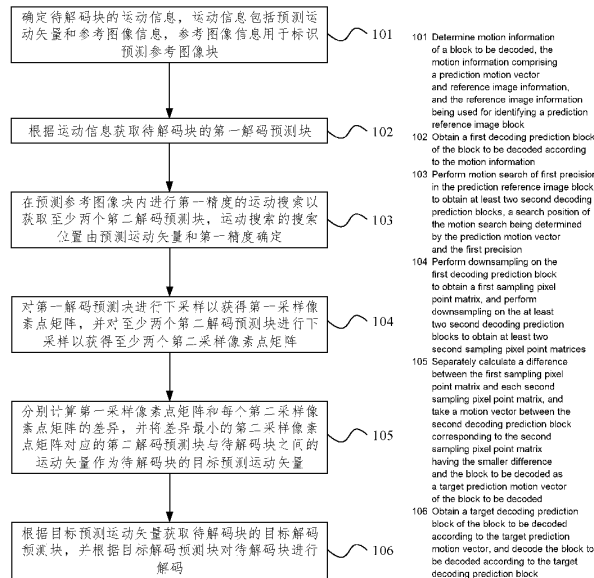


图 1

(57) Abstract: Provided in the present application are an image encoding method and apparatus for a video sequence, and an image decoding method and apparatus for a video sequence. The image decoding method of the present application comprises: determining motion information of a block to be decoded; obtaining a first decoding prediction block of the block to be decoded according to the motion information; performing motion search of first precision in a prediction reference image block to obtain at least two second

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SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, ZA, ZM, ZW。

- (84) 指定国 (除另有指明, 要求每一种可提供的地区
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decoding prediction blocks; performing downsampling on the first decoding prediction block to obtain a first sampling pixel point matrix, and performing downsampling on the at least two second decoding prediction blocks to obtain at least two second sampling pixel point matrices; separately calculating a difference between the first sampling pixel point matrix and each second sampling pixel point matrix, and taking a motion vector corresponding to the second sampling pixel point matrix having the smaller difference as a target prediction motion vector; and obtaining a target decoding prediction block of the block to be decoded according to the target prediction motion vector, and decoding the block to be decoded according to the target decoding prediction block. The present application reduces the calculation amount of difference comparison, and improves image encoding efficiency.

(57) 摘要: 本申请提供一种视频序列的图像编解码方法和装置。本申请图像解码方法, 包括: 确定待解码块的运动信息; 根据运动信息获取待解码块的第一解码预测块; 在预测参考图像块内进行第一精度的运动搜索以获取至少两个第二解码预测块; 对第一解码预测块进行下采样以获得第一采样像素点矩阵; 对至少两个第二解码预测块进行下采样以获得至少两个第二采样像素点矩阵; 分别计算第一采样像素点矩阵和每个第二采样像素点矩阵的差异, 并将差异最小的第二采样像素点矩阵对应的运动矢量作为目标预测运动矢量; 根据目标预测运动矢量获取待解码块的目标解码预测块, 并根据目标解码预测块对待解码块进行解码。本申请降低了差异比较的计算量, 提高图像编码效率。