ABSTRACT

MOTION VECTOR OBTAINING METHOD AND APPARATUS

This application provides a motion vector obtaining method and apparatus. The method includes: determining a target offset vector of a block and identifier information of a target picture, wherein the block comprises at least one sub-block; determining a location coordinate value of the sub-block; determining, as a target location coordinate value of a collocated sub-block, a location coordinate value obtained by performing a clipping operation on an initial location coordinate value in a range, wherein the initial location coordinate value is determined based on the location of the sub-block and the target offset vector; and obtaining a motion vector of the sub-block based on a motion vector corresponding to the target location coordinate value~~determining a first value range and a second value range; determining a target offset vector of a to-be-processed block and identifier information of a target picture, where the to-be-processed block includes at least one to-be-processed sub-block, a value of a component of the target offset vector in a first direction falls within the first value range, a value of a component of the target offset vector in a second direction falls within the second value range, and the first direction and the second direction are in an orthogonal relationship; determining, in the target picture based on a location of the to-be-processed sub-block and the target offset vector, a collocated sub-block of the to-be-processed sub-block; and determining a motion vector of the to-be-processed sub-block based on a motion vector of the collocated sub-block. In this application,~~Thus, a range of the target offset vector is limited, so that a quantity of memory read times can be reduced in a process of obtaining the motion vector of the collocated sub-block.

Fig. 3