Claims

1. A method of decoding an image, the method comprising:

obtaining a prediction mode of a current block from a bitstream;

when the prediction mode of the current block is inter-prediction, obtaining motion vector predictor candidates of the current block using at least one motion vector of neighboring blocks adjacent to the current block;

obtaining a motion vector predictor of the current block from among the motion vector predictor candidates based on a motion vector predictor information obtained from the bitstream; and

restoring a motion vector of the current block based on the motion vector predictor and a difference motion vector,

wherein the at least one motion vector of neighboring blocks is obtained by searching for an available motion vector from the neighboring blocks adjacent to a left side of the current block according to a first order, and by searching for an available motion vector from the neighboring blocks adjacent to an upper side of the current block according to a second order,

wherein the neighboring blocks adjacent to the left side of the current block comprise a lower left block and an upper block located to the upper side of the lower left block,

wherein the first scan order checks the neighboring blocks adjacent to the left side of the current block from the lower left block to the upper block, and

wherein the second scan order indicates a scan order which scans the neighboring blocks adjacent to the upper left side of the current block from right side to left side.

Claims

1. A method of decoding an image, the method comprising:

obtaining a prediction mode of a current block from a bitstream;

when the prediction mode of the current block is inter-prediction, obtaining motion vector predictor candidates of the current block using at least one motion vector of neighboring blocks adjacent to the current block;

obtaining a motion vector predictor of the current block from among the motion vector predictor candidates based on a motion vector predictor information obtained from the bitstream; and

restoring a motion vector of the current block based on the motion vector predictor and a difference motion vector,

wherein the at least one motion vector of neighboring blocks is obtained by searching for an available motion vector from the neighboring blocks adjacent to a left side of the current block according to a first scan order, and by searching for an available motion vector from the neighboring blocks adjacent to an upper side of the current block according to a second scan order,

wherein the neighboring blocks adjacent to the left side of the current block comprise a lower left block and an upper block located to the upper side of the lower left block,

wherein the first scan order checks the neighboring blocks adjacent to the left side of the current block from the lower left block to the upper block, and

wherein the second scan order indicates a scan order which scans the neighboring blocks adjacent to the upper side of the current block from right side to left side.