Claims

1. Decoder for decoding a video from a data stream into which horizontal and vertical components of motion vector differences are coded using binarizations of the horizontal and vertical components, the binarizations equaling a truncated unary code of the horizontal and vertical components, respectively, within a first interval of the domain of the horizontal and vertical components below a cutoff value, and a combination of a prefix in form of the truncated unary code for the cutoff value and a suffix in form of a Exp-Golomb code of the horizontal and vertical components, respectively, within a second interval of the domain of the horizontal and vertical components inclusive and above the cutoff value, wherein the cutoff value is two and the Exp-Golomb code has order one, comprising

an entropy decoder configured to, for the horizontal and vertical components of the motion vector differences, derive the truncated unary code from the data stream using context-adaptive binary entropy decoding with exactly one context per bin position of the truncated unary code, which is common for the horizontal and vertical components of the motion vector differences, and the Exp-Golomb code using a constant equi-probability bypass mode to obtain the binarizations of the motion vector differences;

a desymbolizer configured to debinarize the binarizations of the motion vector difference syntax elements to obtain integer values of the horizontal and vertical components of the motion vector differences;

a reconstructor configured to reconstruct the video based on the integer values of the horizontal and vertical components of the motion vector differences.

2. Decoder according to claim 1, wherein the entropy decoder is configured to derive the truncated unary code from the data stream using binary arithmetic decoding or binary PIPE decoding.

3. Decoder according to claim 1 or 2, wherein the entropy decoder is configured to use different contexts for the two bin positions of the truncated unary code ~~806~~.

4. Decoder according to any of claims 1 to 3, wherein the entropy decoder is configured to perform a probability state update by, for a bin currently derived out of the truncated unary code, transitioning from a current probability state associated with