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(54) Title: FACTIONAL SAMPLE INTERPOLATION FOR REFERENCE PICTURE RESAMPLING

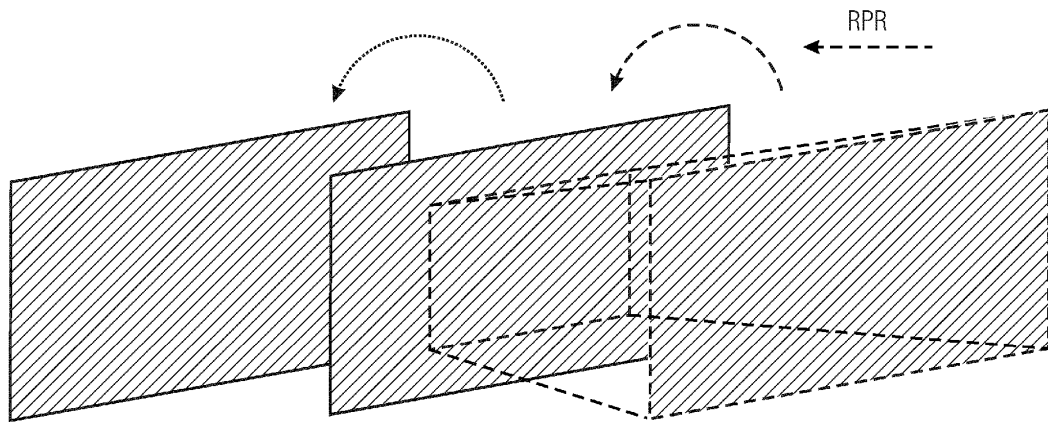


Fig. 8

(57) Abstract: Concepts are described, including encoding of a video into data stream and decoding of a data stream having a video encoded therein, using motion compensation prediction between pictures of equal resolution and pictures of different resolution, based on motion vectors at a half-sample resolution and on motion vectors at a different resolution using interpolation filters to obtain sub-sample values within a reference sample array. The interpolation filter is selected from two interpolation filter versions different in a higher edge preserving property, and the selection is depending on whether a current picture is equal in picture resolution to the reference sample array in horizontal and/or vertical dimension, and/or a constraint information in the data stream.

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