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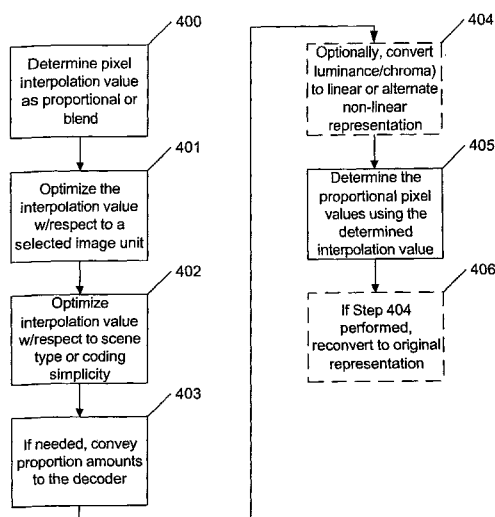
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(54) Title: INTERPOLATION OF VIDEO COMPRESSION FRAMES



(57) Abstract: A method, system, and computer program for improving the image quality of one or more bi-directionally predicted intermediate frames in a video image compression system, where each frame comprises a plurality of pixels (See fig. 4). In one aspect, the invention includes determining the value of each pixel of each bi-directional predicted intermediate frame as a weighted proportion of corresponding pixels values in non-bidirectionally predicted frames bracketing the sequence of bi-directionally predicted intermediate frames (See fig. 4, item 400). In one embodiment, the weighted proportion is a function of the distance between the bracketing non-bidirectionally predicted frames (See fig. 4, item 401). In another embodiment, the weighted proportion is a blended function of the distance between the bracketing non-bidirectionally predicted frames and an equal average of the bracketing non-bidirectionally predicted frames (See fig. 4, item 403). In another aspect of the invention, interpolation of pixel values is performed on representations in a linear space (See fig. 4, item 405), or in other optimized non-linear spaces differing from an original non-linear representation (See fig. 4, item 406).



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