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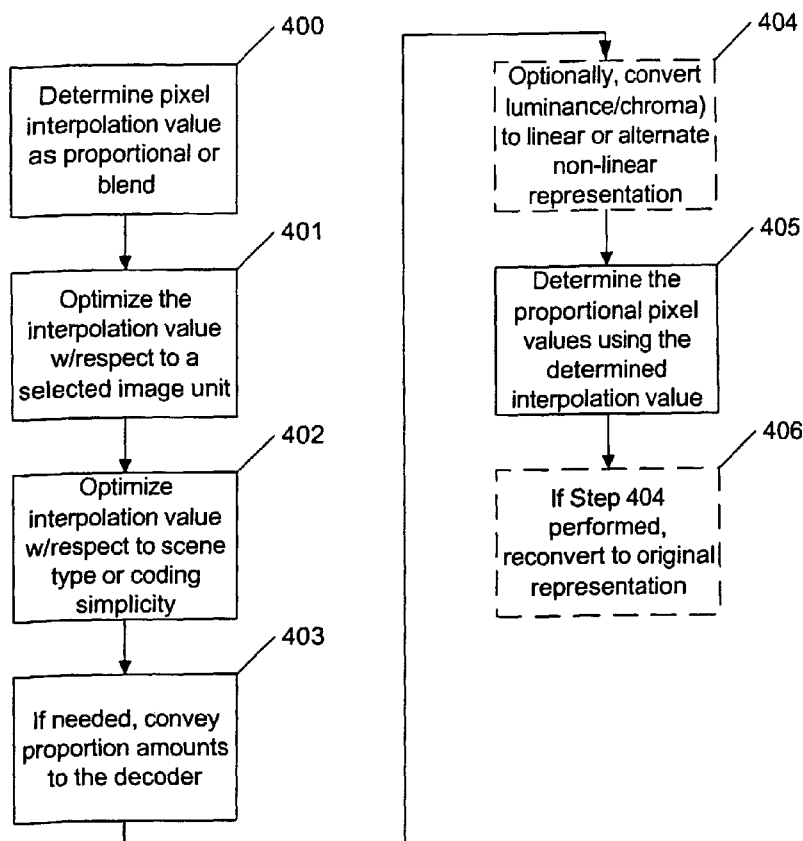
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- (71) Applicant: **DEMOGRAFX** [US/US]; 4640 Admiralty Way, Suite 500, Marina del Rey, CA 90292 (US).
- (72) Inventor: **DEMOS, Gary, A.**; 10720 Hepburn Circle, Culver City, CA 90232 (US).
- (74) Agent: **HARRIS, Scott, C.**; Fish & Richardson P.C., Suite 500, 4350 La Jolla Village Drive, San Diego, CA 92122 (US).
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(54) Title: INTERPOLATION OF VIDEO COMPRESSION FRAMES



(57) Abstract: A method, system, and computer programs 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. In one aspect, the invention includes determining the value of each pixel of each bi-directionally predicted intermediate frame as a weighted proportion of corresponding pixel values in non-bidirectionally predicted frames bracketing the sequence of bi-directionally predicted intermediate frames. In one embodiment, the weighted proportion is a function of the distance between the bracketing non-bidirectionally predicted frames. 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. In another aspect of the invention, interpolation of pixel values is performed on representations in a linear space, or in other optimized non-linear spaces differing from an original non-linear representation.



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