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(71) Applicant (for all designated States except US): **QUALCOMM Incorporated** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHI, Fang** [CA/US]; 4460 Calle Mar De Armonia, San Diego, California 92130 (US). **RAVEENDRAN, Vijayalakshmi R.** [IN/US]; 4272 Calle Mar De Ballenas, San Diego, California 92130 (US).

(74) Agents: **WADSWORTH, Philip R.** et al.; 5775 Morehouse Drive, San Diego, California 92121 (US).

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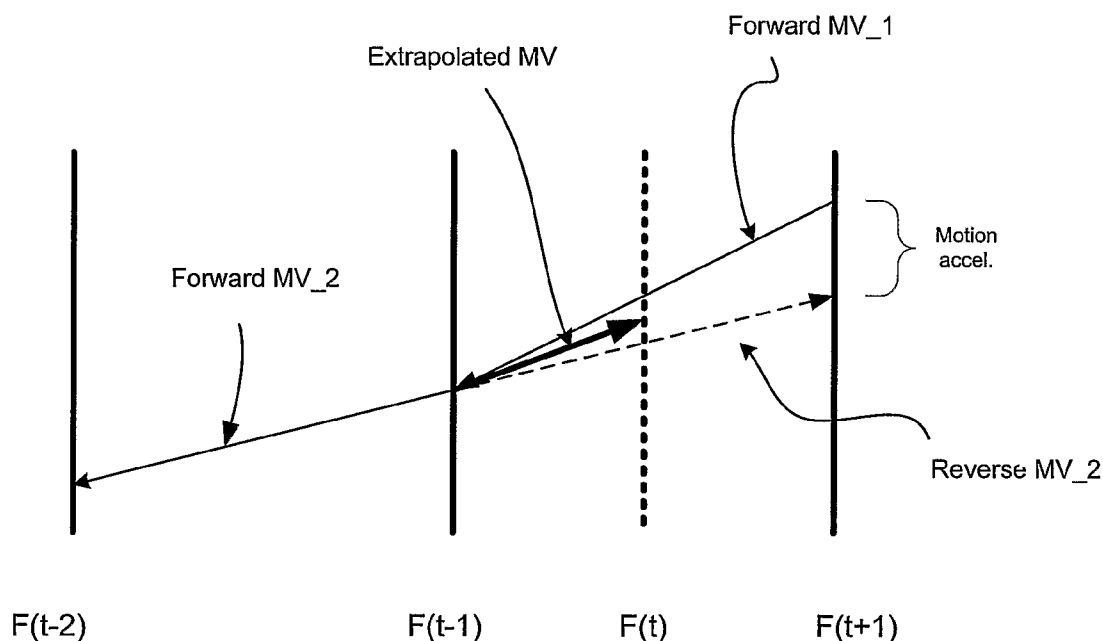
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(54) Title: METHOD AND APPARATUS FOR FRAME RATE UP CONVERSION WITH MULTIPLE REFERENCE FRAMES AND VARIABLE BLOCK SIZES



(57) Abstract: A method for creating an interpolated video frame using a current video frame, and a plurality of previous video frames. The method includes creating a set of extrapolated motion vectors from at least one reference video frame in the plurality of previous video frames; performing an adaptive motion estimation using the extrapolated motion vectors and a content type of each extrapolated motion vector; deciding on a motion compensated interpolation mode; and, creating a set of motion compensated motion vectors based on the motion compensated interpolation mode decision. An apparatus for performing the method is also disclosed.

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