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SYSTEM AND METHOD FOR EXTRACTING SPATIALLY REDUCED IMAGE SEQUENCES IN A MOTION COMPENSATED COMPRESSED FORMAT

ABSTRACT

Given compressed video which supports the coding of interlaced frames (M_0-M_3 and N_0 to N_3) through Discrete Cosine Transform (DCT) and motion compensation, different construction methods are applied based on select DCT domain coefficients and/or motion vector informations to produce spatially reduced images (Q) without decompressing. The spatially reduced images can then be used for video browsing, authoring and processing purposes.

Fig. 7