

SYSTEM AND METHOD FOR DCT DOMAIN INVERSE MOTION
COMPENSATION USING SHARED INFORMATION

ABSTRACT

Given compressed video which supports the coding of interlaced and noninterlaced frames through Discrete Cosine Transform (DCT) and motion compensation, shared information (B and C) is used in a macroblock (M_0 , $M_2 (=N_0)$ and N_1) for efficient conversion of inter-coded blocks to DCT intra-coded blocks. The shared information is also used to efficiently construct spatially reduced images without decompression.

Fig. 13