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(54) Title: SYSTEM AND METHOD FOR IMPROVING THE QUALITY OF COMPRESSED VIDEO SIGNALS BY SMOOTHING THE ENTIRE FRAME AND OVERLAYING PRESERVED DETAIL

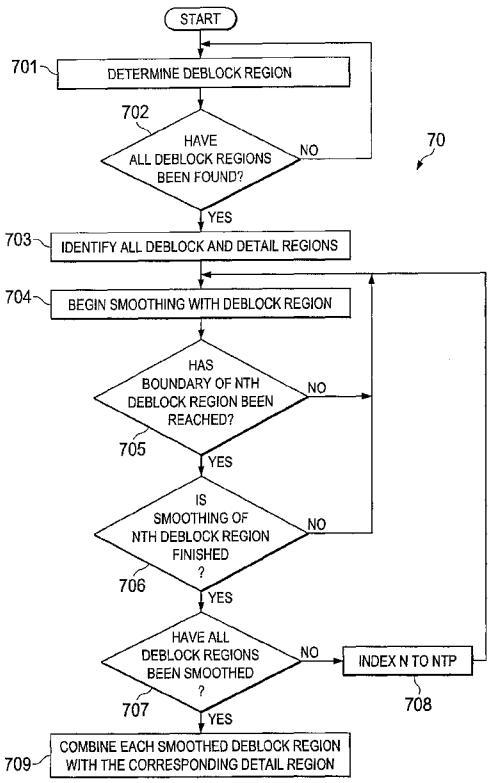

FIG. 7

(57) Abstract: Systems and methods are disclosed for improving the quality of compressed digital video signals by separating the video signals into Deblock and Detail regions and, by smoothing the entire frame, and then by over-writing each smoothed frame by a preserved Detail region of the frame. The Detail region may be computed only in Key Frames after which it may be employed in adjacent frames in order to improve computational efficiency. This improvement is enhanced by computing an Expanded Detailed Region in Key Frames. The concept of employing a smooth Canvas Image onto which the Detail image is overwritten is analogous to an artist first painting the entire picture with an undetailed Canvas (usually using a broad large brush) and then over-painting that Canvas with the required detail (usually using a small fine brush).

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