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(54) **Title:** SCHEMES FOR ADJUSTING ADAPTIVE RESOLUTION FOR MOTION VECTOR DIFFERENCE

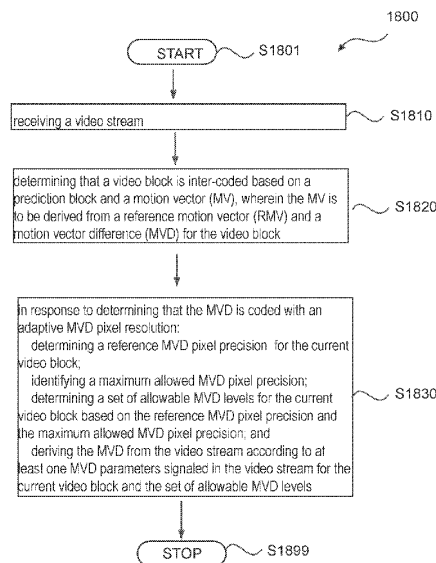


FIG. 18

(57) **Abstract:** This disclosure relates generally to video coding and particularly to methods and systems for providing schemes for setting allowable motion vector different values when implementing adaptive resolution for motion vector difference. An example method for processing a current video block of a video stream is disclosed. The method may include receiving the video stream; determining that the current video block is inter-coded based on a prediction block and a motion vector (MV), wherein the MV is to be derived from a reference motion vector (RMV) and a motion vector difference (MVD) for the current video block. The method further include in response to determining that the MVD is coded with an adaptive MVD pixel resolution: determining a reference MVD pixel precision for the current video block; identifying a maximum allowed MVD pixel precision; determining a set of allowable MVD levels for the current video block based on the reference MVD pixel precision and the maximum allowed MVD pixel precision; and deriving

[Continued on next page]

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the MVD from the video stream according to at least one MVD parameters signaled in the video stream for the current video block and the set of allowable MVD levels.