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(54) Title: OPERATION RANGE EXTENSION FOR VERSATILE VIDEO CODING

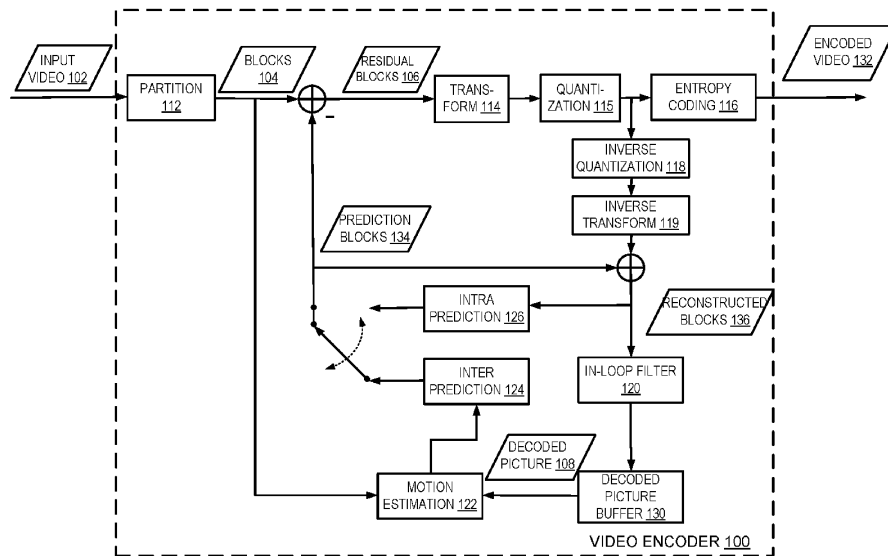


FIG. 1

(57) Abstract: In some embodiments, a video decoder decodes a video from a video bitstream encoded using Versatile Video Coding (VVC). The video decoder determines a bit depth of samples of the video based on Sequence Parameter Set (SPS) syntax element sps\_bitdepth\_minus8 whose value is in the range of 0 to 8. The decoder further determines the size of a decoded picture buffer (DPB) based on a Video Parameter Set (VPS) syntax element vps\_ols\_dpb\_bitdepth\_minus8 whose value is in the range of 0 to 8. The decoder allocates a storage space with the determined size of the DPB, decodes the video bitstream into pictures based on the determined bit depth and stores the decoded pictures in the DPB. The decoder further outputs the decoded pictures for display.

[Continued on next page]

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