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(54) **Title:** VIDEO ENCODER, VIDEO DECODER, AND CORRESPONDING ENCODING AND DECODING METHODS

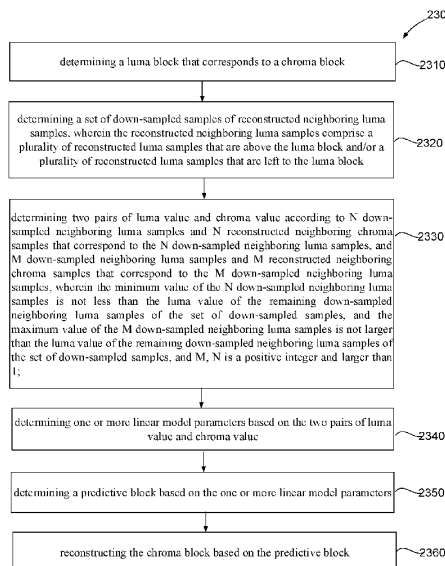


FIG. 23

(57) **Abstract:** Techniques are described of linear model prediction mode. Two pairs of luma value and chroma value are determined according to N reconstructed neighboring luma samples and N reconstructed neighboring chroma samples that correspond to the N reconstructed neighboring luma samples, and M reconstructed neighboring luma samples and M reconstructed neighboring chroma samples that correspond to the M reconstructed neighboring luma samples. The minimum value of the N reconstructed neighboring luma samples is not less than the luma value of the remaining reconstructed neighboring luma samples of the set of reconstructed neighboring luma samples. The maximum value of the M reconstructed neighboring chroma samples is not larger than the chroma value of the remaining reconstructed neighboring chroma samples of the set of reconstructed neighboring chroma samples. M, N are positive integers and are larger than 1. One or more linear model parameters are determined based on the two pairs of luma value and chroma value, and a predictive block is determined based on the one or more linear model parameters.

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