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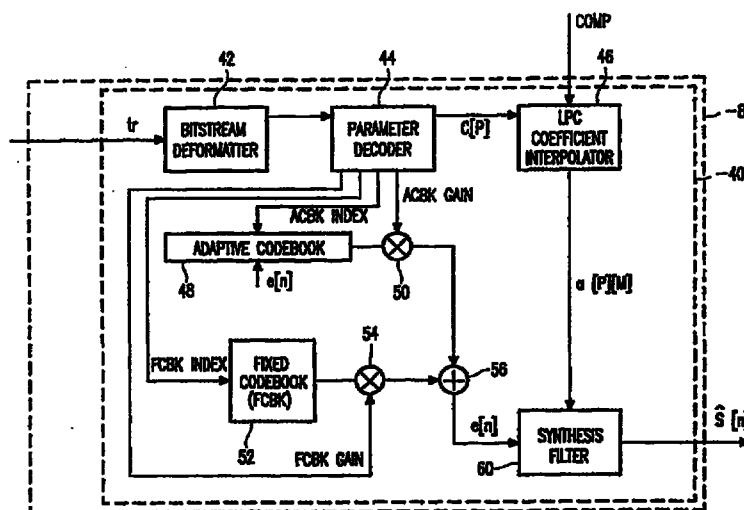
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(54) Title: TRANSMISSION SYSTEM FOR TRANSMITTING SPEECH SIGNALS



(57) Abstract

In a speech decoder (40) a speech signal is represented by a plurality of prediction parameters updated once per frame. Each frame comprises a plurality of sub-frames in which the excitation signal generated by a fixed codebook (52) and an adaptive codebook (48) is updated. In order to enhance the speech quality the prediction coefficients are interpolated by an LPC coefficient interpolator (46) to obtain interpolated prediction coefficients for each sub-frame. According to the present invention the interpolation of the prediction coefficients is not based on the prediction coefficients used for transmission such as reflection coefficients or Log Area Ratios but on Line Spectral Frequencies.