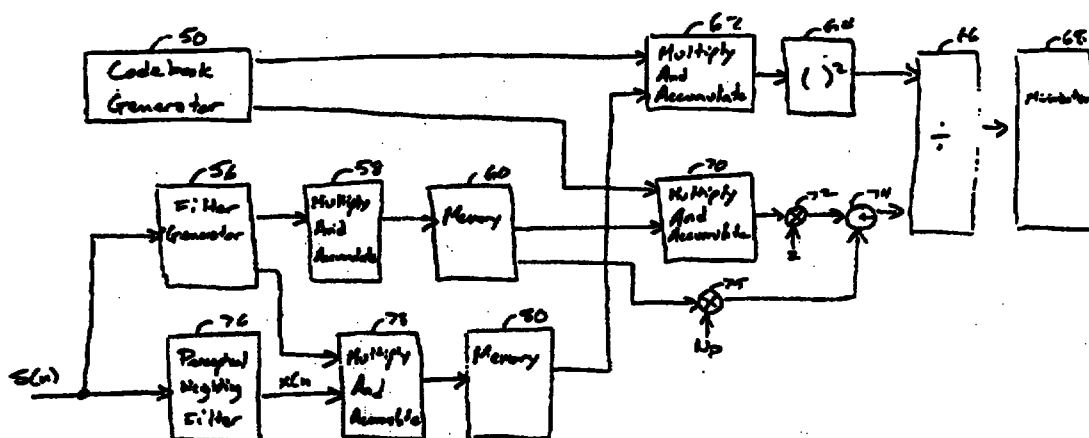




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(54) Title: **METHOD AND APPARATUS FOR SEARCHING AN EXCITATION CODEBOOK IN A CODE EXCITED LINEAR PREDICTION (CLEP) CODER**



(57) Abstract

Method and apparatus for selecting a code vector in an algebraic codebook wherein the analysis window for the coder is extended beyond the length of the target speech frame. An input signal is filtered by a perceptual weighting filter (76). Then, the filter is set to ring out for a number of samples equal to the length of the perceptual weighting filter (76), while a zero input vector is applied as input. By extending the analysis window, the two dimensional impulse response matrix can be stored as a one dimensional autocorrelation matrix in memory (60, 80), greatly saving on the computational complexity and memory required for the search.