

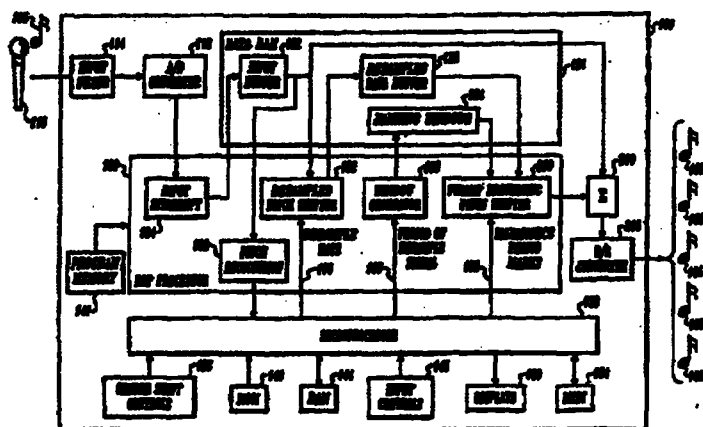
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(54) Title: METHOD AND APPARATUS FOR CHANGING THE TIMBRE AND/OR PITCH OF AUDIO SIGNALS



(57) Abstract

A method for shifting the timbre and/or pitch of an input signal, samples the input signal at a first rate and stores the samples in a memory buffer (122). A digital signal processor (180) resamples the stored input signal at a rate that differs from the first rate at which the input note is originally sampled and stores the resampled input signal in a second memory buffer (128). A pitch shifter (200) shifts the pitch of the input signal by periodically scaling the resampled input signal by a window function (196, 134) to create an output signal. The rate at which the resampled data is replicated by the window function determines the pitch of the output signal.

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