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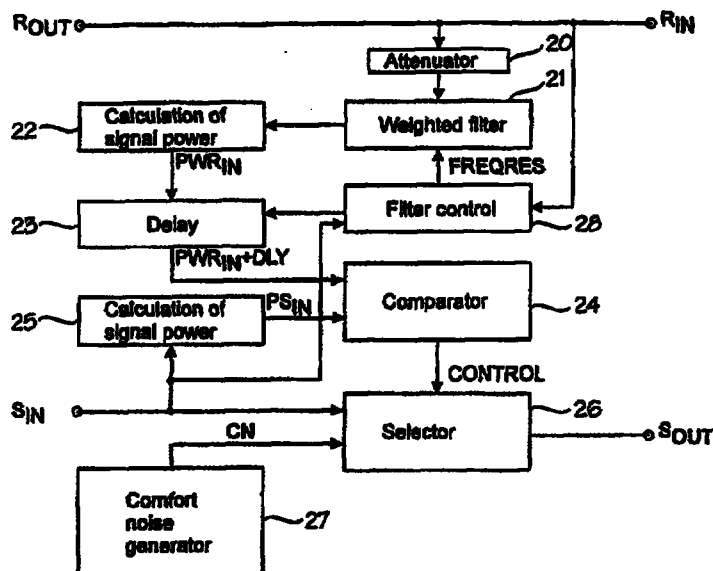
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(54) Title: ECHO SUPPRESSOR AND NON-LINEAR PROCESSOR OF ECHO CANCELLER



(57) Abstract

The invention relates to an acoustic echo suppressor and a non-linear processor for an echo canceller in a 4-wire data transmission network. An echo canceller is typically controlled by comparing the power levels (PWR_{IN} , PS_{IN}) of the near-end and far-end signals (R_{IN} , S_{IN}). The transfer function of an acoustic echo path is usually very non-uniform. According to the invention, the spectrum of the far-end signal (R_{IN}) is treated, before the signal power level is calculated, with a weighted filter (21), which models the effect of the transfer function of acoustic echo. As a result, the double talk dynamics is improved, since high-energy vowels of far-end speech, which normally cause low-energy vowels of near-end speech to be clipped in an echo suppressor, will be attenuated.