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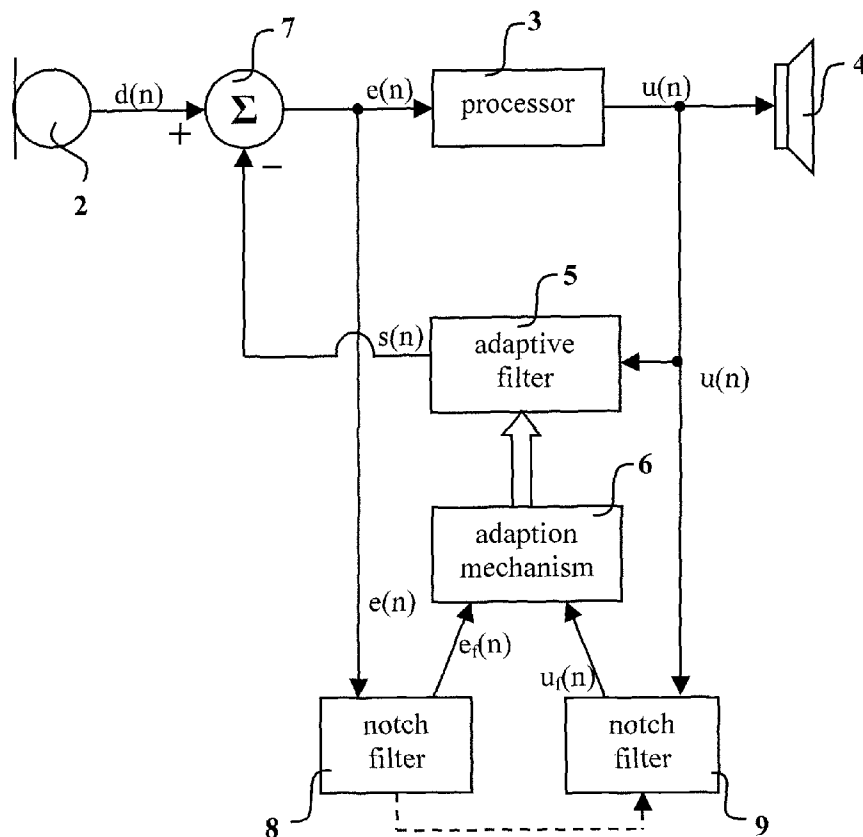
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- (54) Title: HEARING AID WITH ADAPTIVE FEEDBACK SUPPRESSION



(57) Abstract: A hearing aid comprises an input transducer (2) for deriving an electrical input signal from an acoustic input, a signal processor (3) for generating an electric output signal, an output transducer (4) for transforming the electrical output signal into an acoustic output, an adaptive estimation filter (5) for generating a feedback estimation signal, at least one first adaptive narrow-band filter (8) for narrow-band-filtering an input signal of the signal processor (3), at least one second adaptive narrow-band filter (9) for narrow-band-filtering a reference signal corresponding to an input signal of the adaptive estimation filter (5), and an adaptation mechanism (6) for updating the filter coefficients of the adaptive estimation filter (5) based on the output signals of the first and second narrow-band filters.