



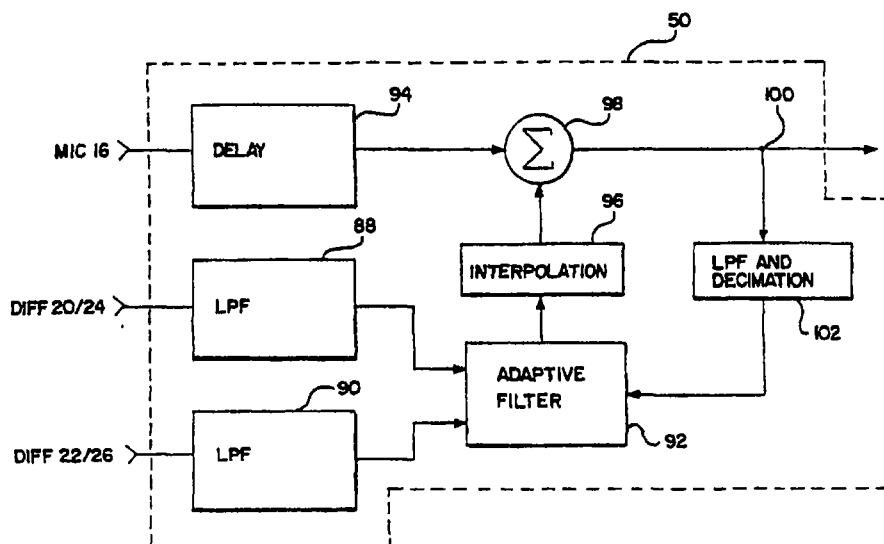
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(54) Title: DIGITAL AND ANALOG DIRECTIONAL MICROPHONE



(57) Abstract

A directional microphone comprises a shotgun microphone (16) having an elongated tube which is designed to control directivity at frequencies above a predetermined frequency and at least four reference microphones (20, 22, 24, 26) spatially arranged about said shotgun microphone (16). A signal processor (50), which is electrically connected to the shotgun and reference microphones, generates interference cancelling signals (from 96) from the portions of the signals from the reference microphones (20, 22, 24, 26) which have frequencies generally below the predetermined frequency. The signal processor (50) combines (98) the cancelling signals with the signal from the shotgun microphone (16) to generate an output signal (100) in which signals originating from in front of the directional microphone in a direction along the longitudinal axis of the tube are enhanced and signals originating from locations other than in front of the directional microphone in a direction along the longitudinal axis of the tube are suppressed.



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