

Abstract

Noise Canceler System With Adaptive Cross-Talk Filters

A known cross-talk adaptive noise cancellation apparatus uses
5 two adaptive filters for suppressing the correlated noise in
the main signal, which contains wanted voice and unwanted
noise, by a reference signal, which contains unwanted noise
and wanted voice via cross-talking. A noise canceler is
provided in the present invention including some additional
10 parts, such as a voice detection circuitry and a step size
decision circuitry. The voice detection circuitry detects
whether the wanted voice exists. The step size decision
circuitry decides what the step sizes are used for the next
update of the two adaptive filters.

15

Fig.2