

**METHOD AND APPARATUS FOR REDUCING NOISE IN SPEECH SIGNAL
ABSTRACT**

A method and an apparatus for reducing the noise in a speech signal capable of suppressing the noise in the input signal and simplifying the processing. The apparatus includes a fast Fourier transform unit 3 for transforming the input speech signal into a frequency-domain signal, and an H_n value calculation unit 7 for controlling filter characteristics for filtering employed for removing the noise from the input speech signal. The apparatus also includes a spectrum correction unit 10 for reducing the input speech signal by the filtering conforming to the filter characteristics produced by the H_n value calculation unit 7. The H_n value calculation unit 7 calculates the H_n value responsive to a value derived from the frame-based maximum SN ratio of the input signal spectrum obtained by the fast Fourier transform unit 3 and an estimated noise level and controls the processing for removing the noise in the spectrum correction unit 10 responsive to the H_n value.

FIGURE 1