

[54] ADAPTIVE WEINER FILTERING USING A DYNAMIC SUPPRESSION FACTOR

[56] References Cited PUBLICATIONS

[75] Inventors: Levent M. Arslan, Durham, N.C.; Alan V. McCree, Dallas; Vishu R. Viswanathan, Plano, both of Tex.

Deller et al., "Discrete-Time Processing of Speech Signals." Prentice-Hall, Inc., pp. 506-528, 1987.
 Arslan et al., "New Methods for Adaptive Noise Suppression," ICASSP '95: Acoustics, Speech & Signal Processing Conference, pp. 812-815, May 1995.

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[21] Appl. No.: 425,125

[57] ABSTRACT

[22] Filed: Apr. 19, 1995

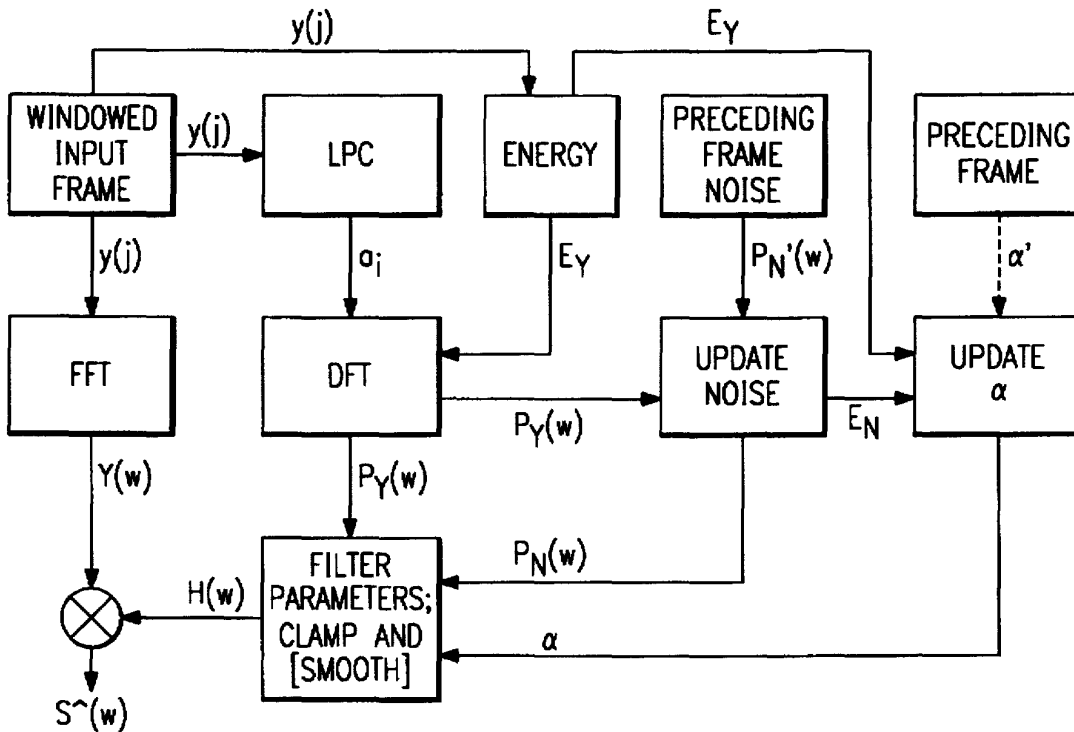
An acoustic noise suppression filter including attenuation filtering with a noise suppression factor depending upon the ratio of estimated noise energy of a frame divided by estimated signal energy.

[51] Int. Cl.⁶ G10L 3/02

[52] U.S. Cl. 395/2.35; 395/2.36; 395/2.37

[58] Field of Search 395/2.35, 2.36, 395/2.37, 2.38, 2.42, 2.28; 381/34, 36

12 Claims, 7 Drawing Sheets



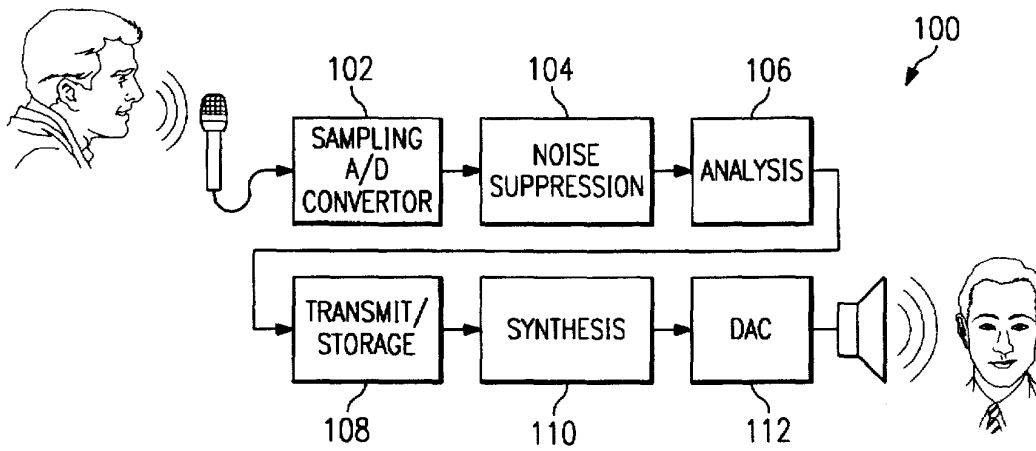


FIG. 1a

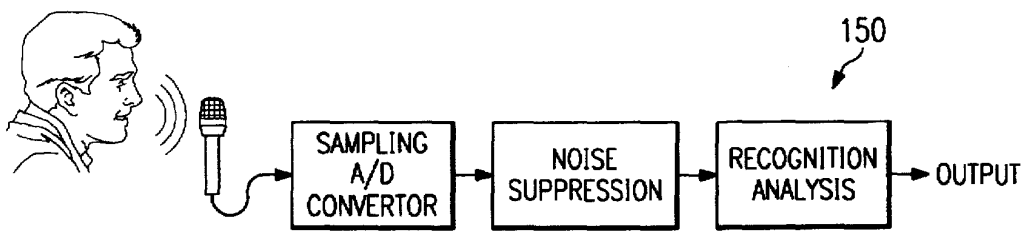


FIG. 1b

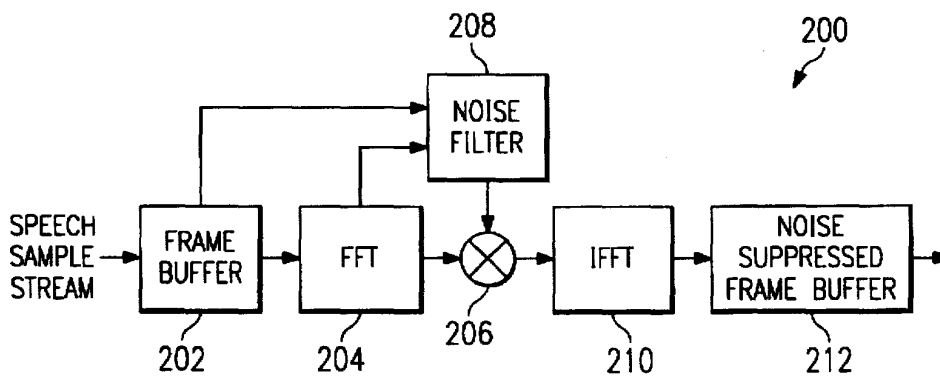
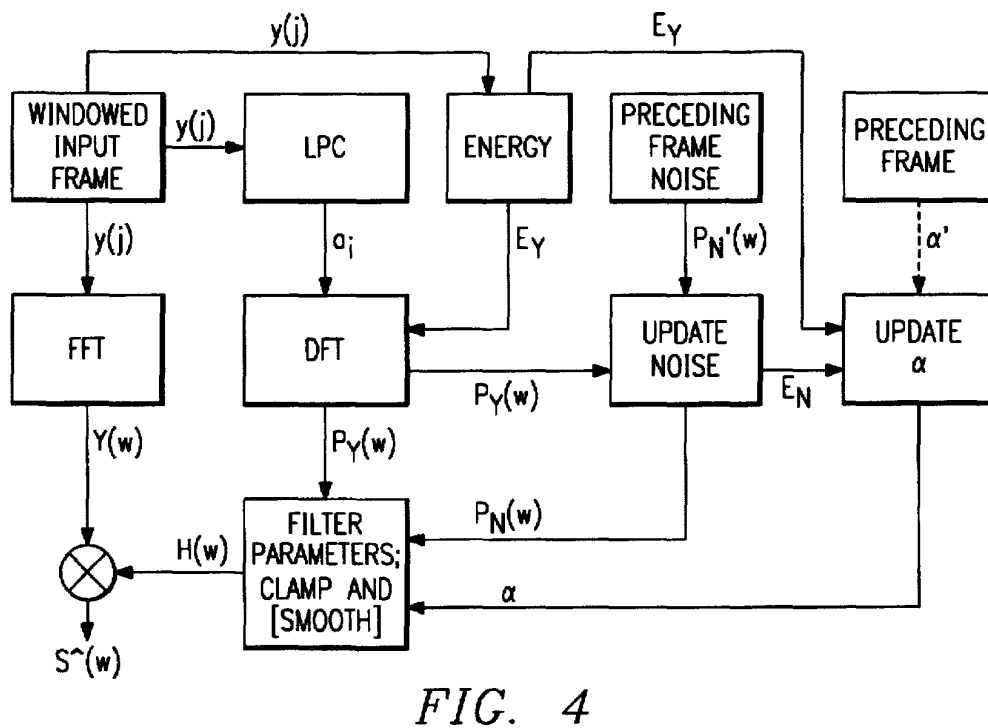
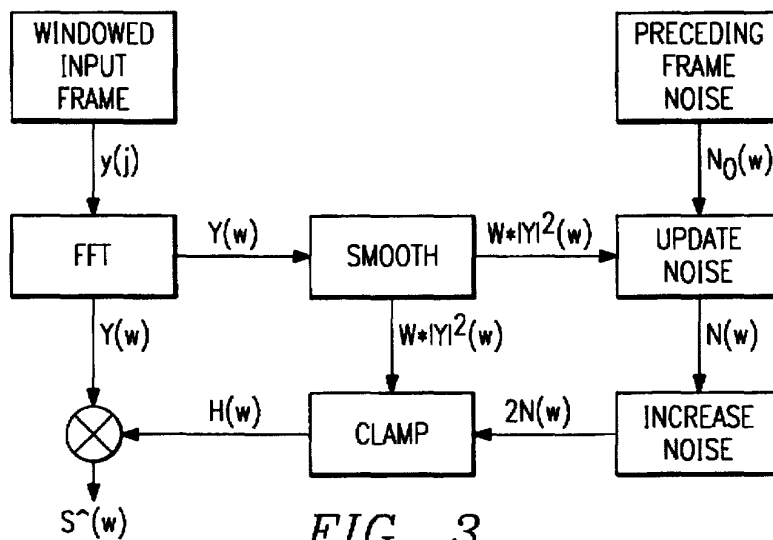


FIG. 2



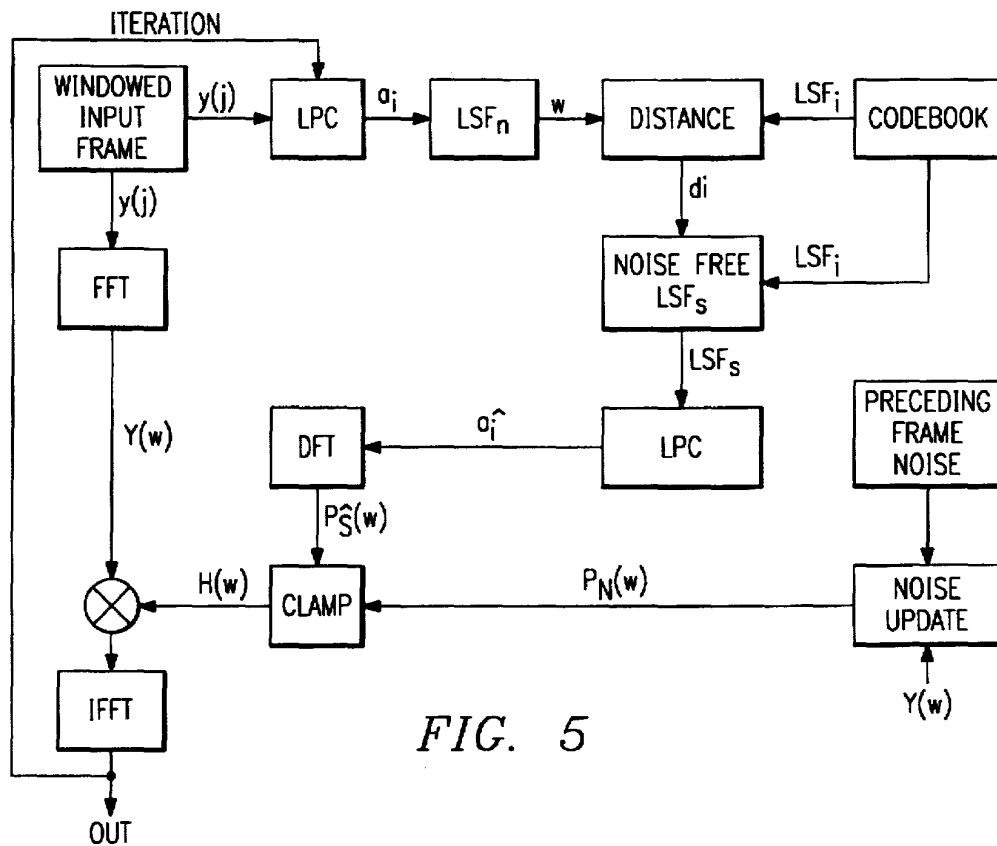
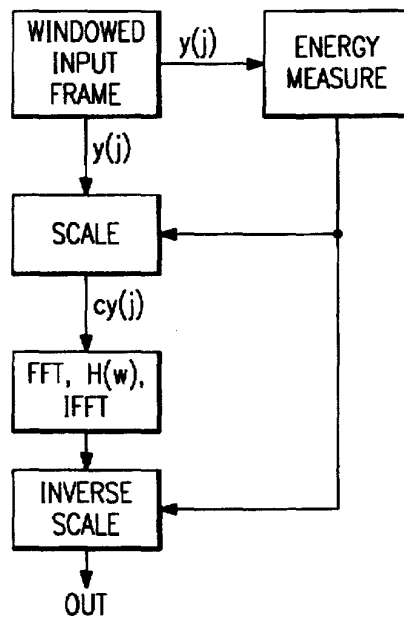


FIG. 5

FIG. 6



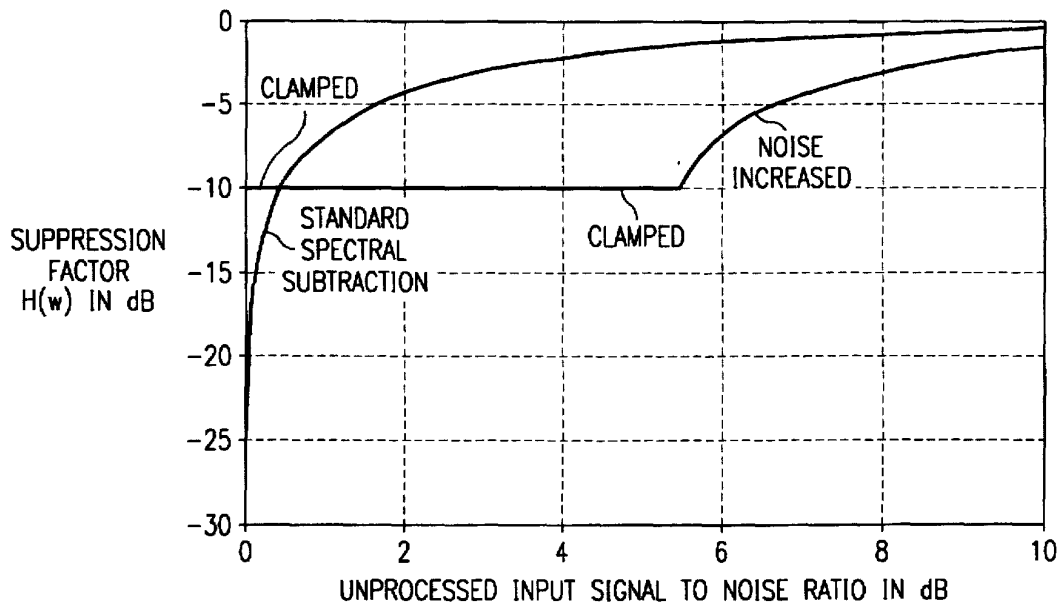


FIG. 7

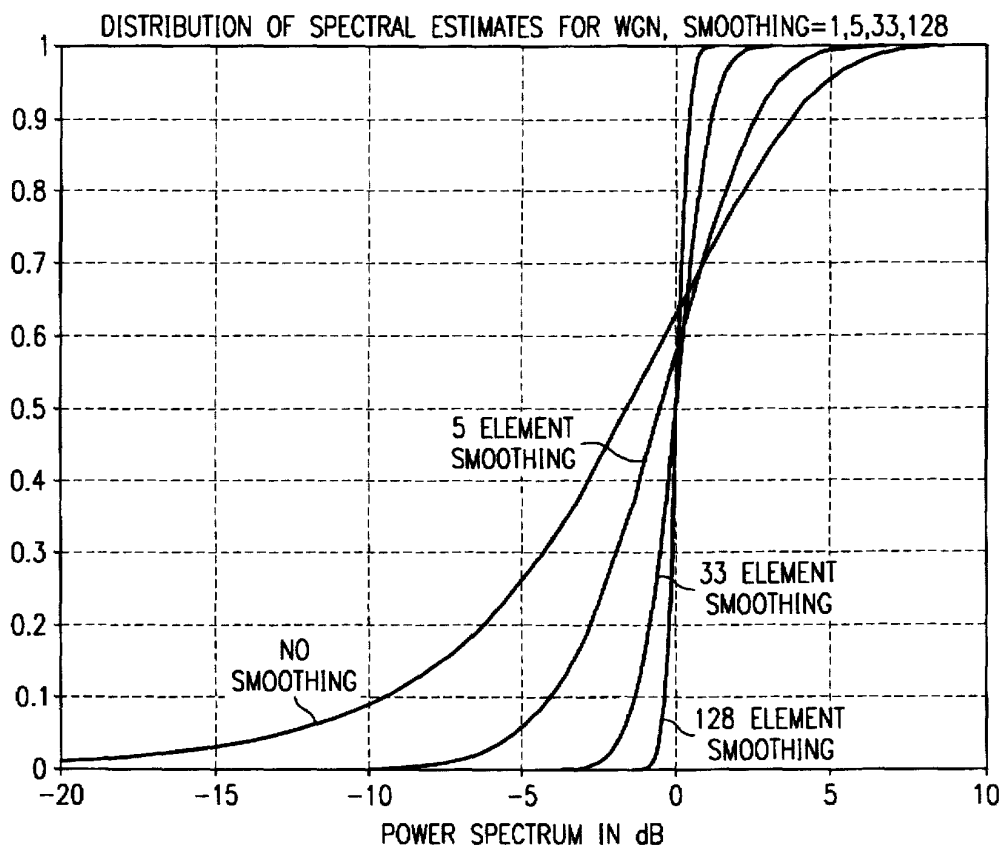


FIG. 8

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