

[54] AUDIO ENCODER FOR USE WITH MORE THAN ONE DECODER EACH HAVING DIFFERENT CHARACTERISTICS

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[52] U.S. Cl. 369/175; 369/54; 358/336; 360/27

[58] Field of Search 369/48, 49, 54, 59; 358/336, 340; 360/27

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Primary Examiner—William L. Sikes

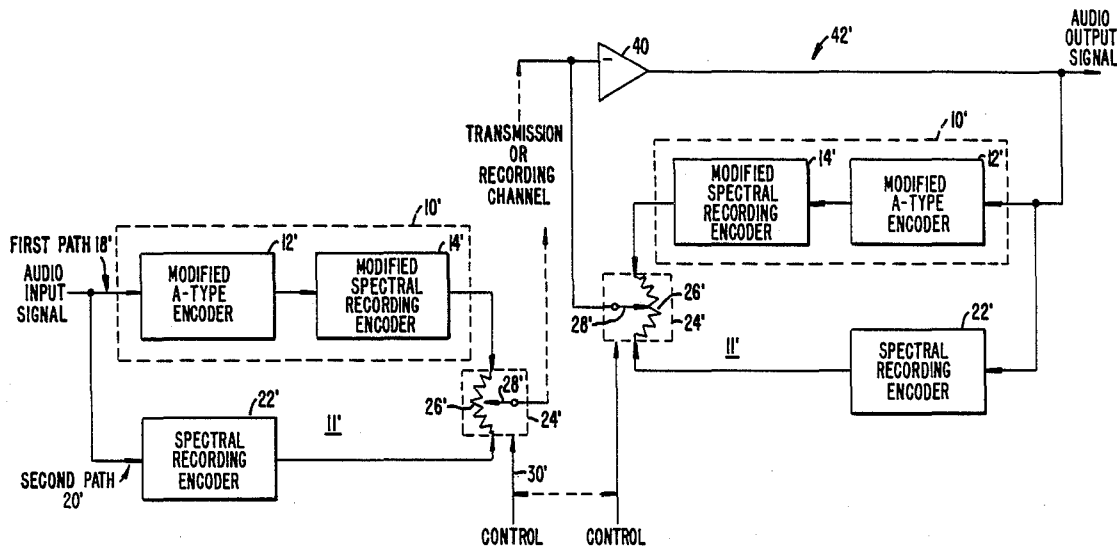
Assistant Examiner—Akm E. Ullah

Attorney, Agent, or Firm—Thomas A. Gallagher

[57] ABSTRACT

A "hybrid" encoder has a characteristic action suitable for substantially full complementary playback in an audio signal transmission or recording system using decoders designed for one type complementary encode/decode system while permitting compatible decoding with decoders designed for use with another type complementary encode/decode system, or playback without any special decoders at all. The hybrid encoder is a series or parallel arrangement of two encoders that are modifications of standard encoders used in the two systems. In the preferred embodiments the two systems are A-type noise reduction and spectral recording. A variable degree of hybrid encoding is provided by varying the characteristic controlling circuit parameters in the two encoders, or in a preferred embodiment, by providing a variable combining arrangement that selects from the outputs of a hybrid encoder and an unmodified encoder (spectral recording).

27 Claims, 7 Drawing Sheets



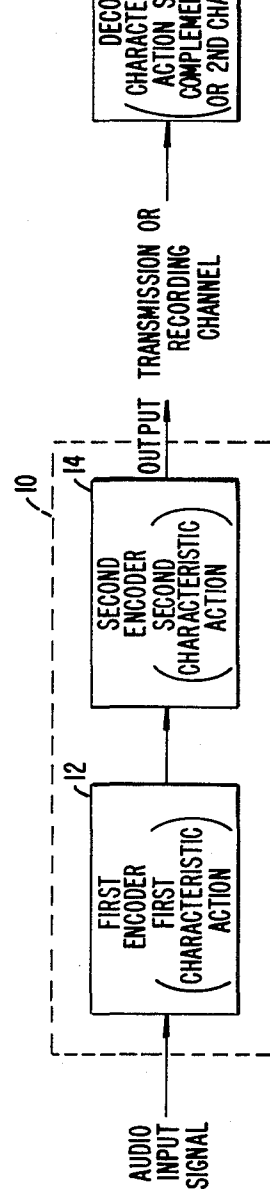


FIG. 1.

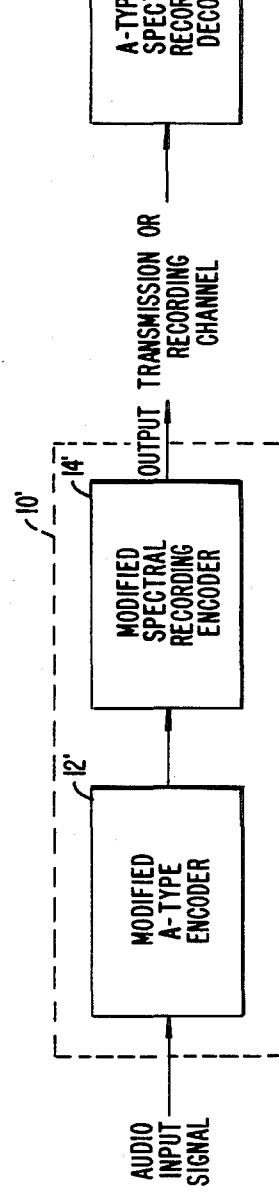


FIG. 2.

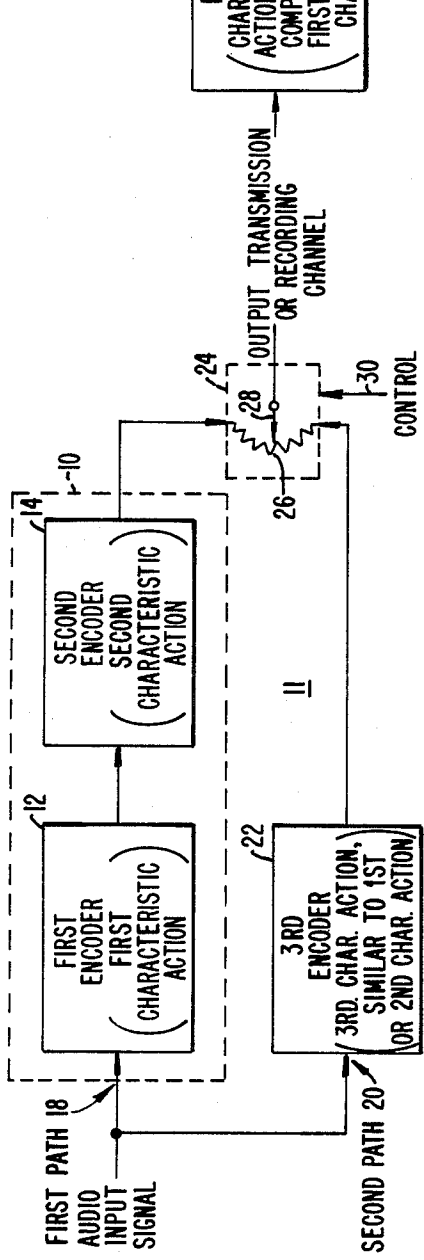


FIG. 3.

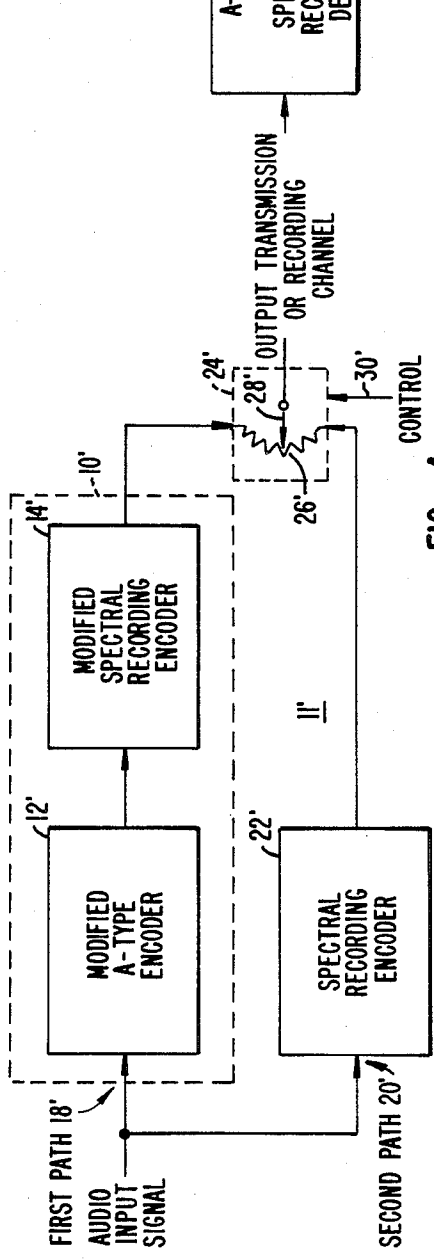


FIG. 4.

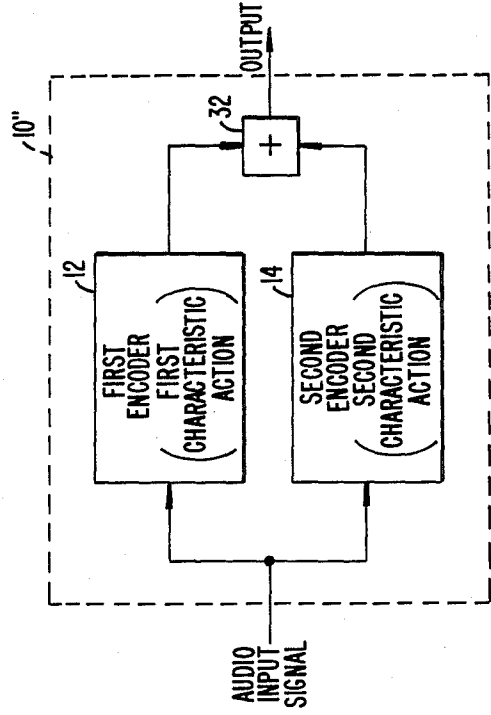


FIG. 5.

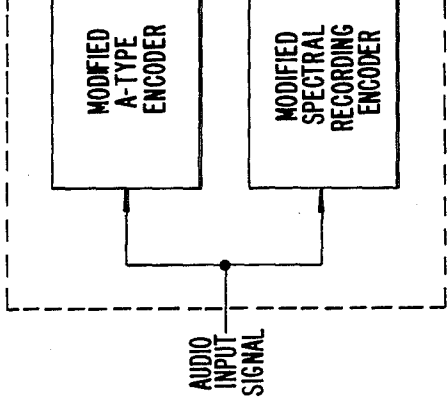


FIG. 6.

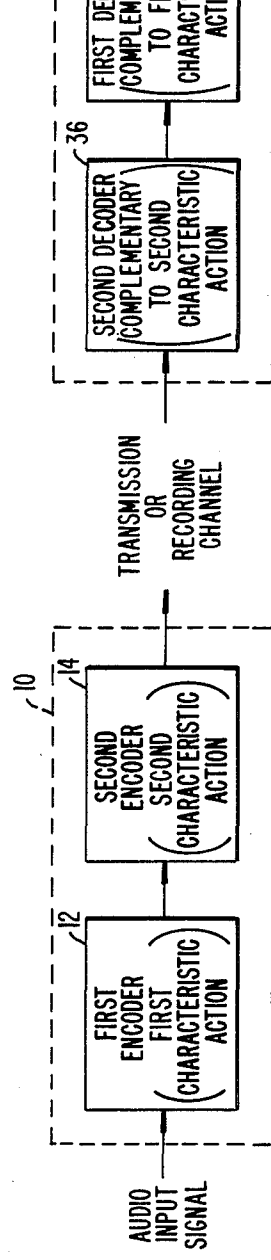


FIG. 7.

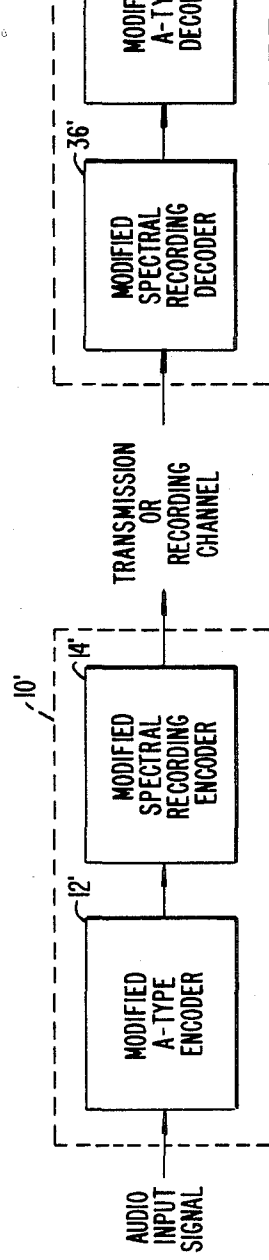


FIG. 8.

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