

[54] SYNCHRONOUS AM DEMODULATOR WITH QUADRATURE SIGNAL CANCELLATION

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[58] Field of Search 329/50, 145, 166, 168, 329/169

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[57] ABSTRACT

A method and apparatus for removing quadrature error signal components from synchronous AM demodulation signals are disclosed. A synchronous AM demodulator processes a synchronous sensor output signal in phase relation to a phase reference signal. Means are provided for dynamically producing a counteracting signal that is stably phase related to the system reference signal. The counteracting signal is in phase with the quadrature component of the synchronous signal such that when added to the synchronous signal, the quadrature component thereof is minimized or eliminated.

15 Claims, 2 Drawing Figures

