

ABSTRACT OF THE DISCLOSURE

A system for the estimation of the complex gain of a transmission channel is designed for parallel type modulators/ demodulators that can be used in digital radio broadcasting. The system comprises a given number N of sets of interpolators to
5 estimate the gain on a useful symbol from known symbols constituting gain references evenly positioned in the transmitted signal, each set of interpolators being adapted to a particular situation of reception, ranging from a stable single-path channel to a channel with high temporal dispersion and high instability. The outputs of the interpolators are coupled to a selection device programmed to choose the set
10 of interpolators that gives the weakest estimated noise during a specified length of time. Application to digital radio transmission.

Figure 1.

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