

ABSTRACT

METHOD OF COMBATTING INTERFERENCE BY SPATIAL FILTERING OR SPATIO-TEMPORAL FILTERING IN A MULTI-CHANNEL RECEIVER

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The invention pertains to a method for receiving a signal and for rejecting interference in a multichannel receiver, as well as to the multichannel receiver implementing the method. The method comprises the steps of:

- 10 • reception, transposition and discretization of the signal received on each of the channels of the receiver, so as to obtain a discretized multichannel signal,
- synchronization of the discretized multichannel signal,
- computation, on the basis of the discretized and synchronized multichannel signal, of a matrix $\hat{R}$ of correlation of the total noise,
- 15 • computation, on the basis of the said matrix $\hat{R}$ of correlation of the total noise, of a vector w comprising amplitude phase weighting coefficients (221, 222) of a multichannel filter, and
- application, to the discretized and synchronized multichannel signal, of a multichannel filtering processing (201) on the basis of the said vector w , and then of a single-channel equalization processing (202) to the
20 filtered signal.

Figure 2

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