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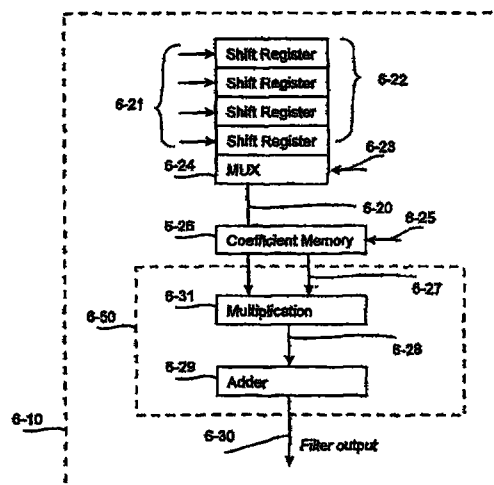
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(54) Title: MATCHED FILTER AND SPREAD SPECTRUM RECEIVER



(57) Abstract: The invention relates to a matched filter (6-10) for implementing the correlation of an input signal (6-21) and a reference signal (6-27). The matched filter (6-10) according to the invention comprises N parallel M-sample long shift registers for receiving an equal number of input signals (6-21) at the sampling frequency of the input signal (6-21), wherein $N \geq 2$; first means (6-22) for storing K M-sample long reference signals (6-27), wherein $K \geq 1$; multiplexing means for applying one input signal (6-21) and one reference signal (6-27) at a time from said shift registers and said storage means to correlation calculation means (6-50) by applying alternately at least one combination of the input signals (6-21) and the reference signals (6-27) to the calculation means (6-50); calculation means (6-50) for calculating the correlation time-dividedly for each combination of an input signal (6-21) and a reference signal (6-27) so that correlation results calculated from different signals appear at the output of the calculation means (6-50) as a sequence.

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