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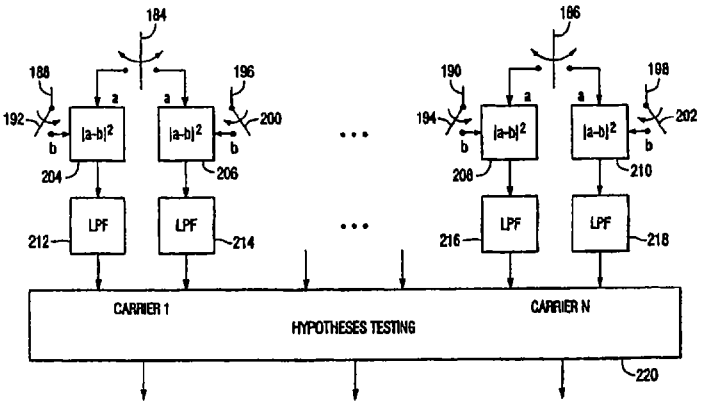
(54) Title: METHOD FOR ESTIMATING SIGNAL-TO-NOISE RATIO OF DIGITAL CARRIERS IN AN AM COMPATIBLE DIGITAL AUDIO BROADCASTING SYSTEM



(57) Abstract: A method of estimating SNR for a plurality of carriers modulated with digital information, wherein the digital information includes data baud and training baud, comprising the steps of: receiving the plurality of carriers; determining a first SNR for the data baud; determining a second SNR for the training baud; comparing at least one of the first and second SNRs to predetermined selection criteria; and selecting one of the first and said second SNRs based on the comparison step. In the preferred embodiment, the carriers are processed to produce an equalizer output for each of the carriers, and the equalizer output is processed to produce a symbol decision for each of the carriers. The equalizer output is subtracted from the symbol decision when a data baud is received to produce a first difference value, and the first difference value is squared to produce a first signal to noise estimate. The equalizer output is also subtracted from predetermined training data when a training baud is received to produce a second difference value, and the second difference value is squared to produce a second signal to noise estimate. Apparatus that performs the above method is also included.

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