



Abstract



Methods and Apparatus for Receiving OFDM Signals

- 5 A receiver for OFDM signals performs carrier frequency offset estimation and channel parameter estimation in tandem, so that the two estimations are joint-optimised with respect to the data, to achieve a higher estimation performance than that available from estimating first the carrier offset and then the channel parameters. The iterative optimisation scheme repeatedly carries out a
- 10 sequence of two steps: (i) estimating the carrier frequency offset and (ii) estimating the channel parameters. In each step (i), the last estimated channel parameters are used to improve the carrier offset estimation. In each step (ii), the last estimated values for the carrier frequency offset are used as a condition to estimate the channel parameters.

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[Fig. 2]