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Abstract

Receiver and Method for WLAN Burst type Signals

The present invention relates to methods and devices for receiving signals in a Wireless Local Area Network (wireless LAN, or WLAN), particularly in the case that the signals are Orthogonal Frequency Division Multiplexed (OFDM) signals. A frequency offset estimation apparatus for an OFDM receiver is disclosed, having: means for determining a first frequency offset having means for determining the correlation of corresponding samples of two received preamble symbol samples a first predetermined delay duration apart; means for determining a second frequency offset having means for determining the correlation of corresponding samples of two received preamble symbol samples a second predetermined delay duration apart, said second delay duration being different from said first delay duration; and means for combining said first and second frequency offsets in order to determine said frequency offset estimation.

Fig. 4