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(54) Title: OFDM RECEIVING SYSTEM

(57) Abstract

A method of frame synchronization for OFDM point-to-multipoint channels is provided according to a first aspect of the invention, wherein sequences of reference frames are inserted at prescribed intervals between sequences of information frames. Each frame comprises a cyclic prefix, composed of two identical segments of data, which is used for locating a frame synchronization starting point by applying a subtraction function on the two segments of data for locating the starting point at the location of the minimum of the function. A method of channel equalization for OFDM channels is also provided according to a second aspect of the invention, wherein the reference frames and data known to a receiver are used for creating an equalization vector for correcting broadcast errors of the information frames received at the receiver side.

