

Title (en)

METHOD OF OPERATING A MESSAGE RECEIVER

Title (de)

VERFAHREN ZUM BETREIBEN EINES NACHRICHTENEMPFÄNGERS

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN RECEPTEUR DE MESSAGES

Publication

**EP 1356406 A2 20031029 (DE)**

Application

**EP 01967619 A 20010813**

Priority

- DE 10040222 A 20000817
- IB 0101760 W 20010813

Abstract (en)

[origin: WO0215065A2] The invention relates to a method of operating a message receiver for receiving a message that is available as a burst that comprises at least one training sequence and user data. The inventive method is characterized in that the receiver, when receiving the burst, is synchronized stepwise onto said burst.

[origin: WO0215065A2] The invention relates to the construction of a synchronization sequence and a corresponding synchronization method for the transmission of burst signals. In order to speed up synchronization, the sequence is composed of two portions. The first portion, a dotting sequence, is similar to a cosine wave having a determined frequency (e.g. ++++---++), the second portion is a pseudo-noise sequence (PN sequence). For synchronization, the frequency offset and possibly the phase offset and the clock pulse are determined using the first portion of the sequence (42). The second portion of the sequence is used as a training sequence and is utilized for alignment of the time-slot (word synchronization) and for determining the channel impulse response. A Viterbi decoder mounted downstream improves or tracks synchronization and estimation of the channel impulse response in the tracking phase (40).

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