Abstract

Method for analysing the channel impulse response of a transmission channel using a time-discrete adaptive equaliser (21), which is connected in series to the transmission channel, which it equalises, comprising the following procedural stages:

- determination of the IIR filter coefficients (a_n) of a recursive filter portion (23) and the FIR filter coefficients (b_n) of a non-recursive filter portion (22) of the time-discrete adaptive equaliser (21),
- at least partial assignment (S101) of input vectors for a discrete Fourier transformation with the IIR filter coefficients (a_n) and the FIR filter coefficients (b_n),
- determination of output vectors for a discrete Fourier transformation from the input vectors,
- formation of the discrete transmission function values by division of the output vectors, and
- determination of the channel impulse response from the channel transmission function using the inverse discrete Fourier transformation.

(Fig. 1 and 3)