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(54) Title: PULSE SHAPING FOR MULTICARRIER MODULATION

(57) Abstract

A method and system for data transmission in an orthogonal frequency division multiplexed (OFDM) system is provided. In the invention each of a plurality of data symbols $C_k$, having a symbol period T, are modulated (404) onto one of a plurality of subcarriers comprising a first data signal. The first data signal is then multiplied (406) by a pulse-shaping function over the period T to generate a second data signal. The second data signal is then modulated (412) and transmitted on a system carrier over a communications channel (414) of the OFDM system.

