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(54) Title: APPARATUS AND METHODS FOR UNIDIRECTIONAL DATA COMMUNICATION

(57) Abstract

A method for communicating over a signal conduction medium (108) is provided. The method includes the steps of coupling (102) a communication device (106) to the signal conduction medium (108); storing a digital message packet in the communication device (106); defining N channels of a waveform having a nominal frequency, each channel has a channel period based on the frequency and the length of the digital message packet; and for each frame randomly selecting a channel from among the N channels constituting the frame and transmitting the digital message packet over the signal conduction medium (108) on the selected channel of the waveform.

