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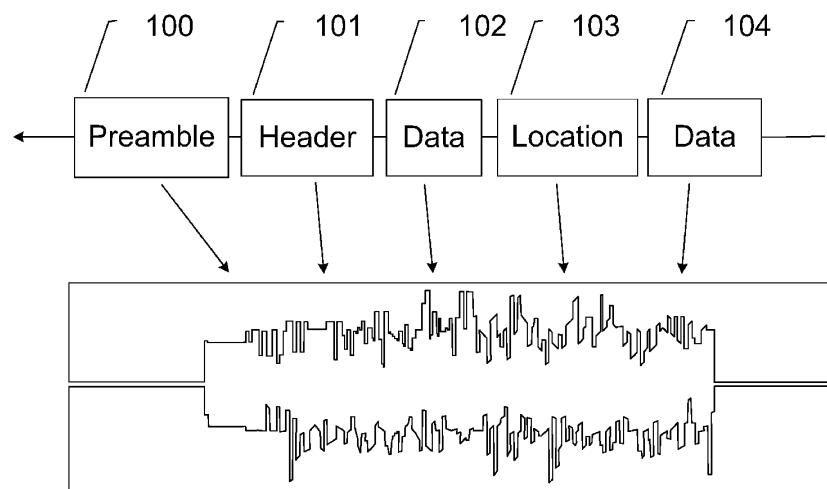


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(54) Title: SYSTEM AND METHOD FOR INTEGRATED WIRELESS DATA TRANSMISSION WITH IMPLICIT LOCATION AND TIMESTAMP WITH A LOCATION SYMBOL

FIG. 1



(57) Abstract: Techniques for efficient and accurate data collection employing many sensors distributed over an area is disclosed. The many data collection and transmission devices transmit the data in a novel manner that is the combination of a set of digital data packets which convey the data, integrated with a set of analog packets that enable the receiver to determine the distance between the transmitter and the receiver is disclosed. The receivers of this data are arranged so that they can receive each broadcast sample, and distributed geographically so that triangulation techniques can be used to precisely locate each transmitter. Highly accurate clocks located only in the receivers are used to timestamp the acquired data. This design of the combination data packet enables use of inexpensive sensors to collect high quality data with accurate two and three- dimensional location and time stamps provided by the network of receivers.

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