

DATA TRANSFER METHOD AND APPARATUS FOR COMMUNICATION BETWEEN A PERIPHERAL AND A MASTER

5

Abstract of the Disclosure

10 Data transfer apparatus (211,213) for a radiotelephone peripheral using a time multiplexed data bus for communication with a bus master of the radiotelephone (201) couples peripheral devices external to the radiotelephone (201) and other user information inputting devices, such as a handset (203) for a cellular mobile radiotelephone, to the radiotelephone's central processor and speech processor (207). The data transfer apparatus generates time slots in frame formats in which the information is sent over the data bus. The entire message, information bits and the header, sent in a time slot from a peripheral device to the bus master is used to determine bus contention. Bus contention resolution during the start-up of data bus operation sets the priority with respect to other data transfer apparatus with which a peripheral device's data transfer apparatus is able to access the bus during normal operation.

15

20

FIG. 2 accompanies this abstract.