

AUDIO SIGNAL TRANSMISSION SYSTEM AND DATA PROCESSING METHOD FOR ENHANCING DATA ACCURACY OF THE SAME

5 ABSTRACT

An audio signal transmission system includes a first device 10 and a second device 20. The first device 10 transmits audio signals to the second device 20 for the second device 20 to receive and process. After converting a piece of information read by the first device 10 into digital data, the first device 10
10 arranges the digital data to acquire a matrix, performs error control coding algorithm to rearranges and code continuous data in the matrix to generate a byte sequence, and modulates the byte sequence to generate a set of audio signals for transmission. The second device 20 receives and modulates the set of audio signals to acquire the byte sequence, and performs an error control
15 decoding algorithm to correctly acquire the piece of information. Accordingly, data accuracy through the audio signal transmission can be ensured, and the issue of massive uncorrectable continuous data upon audio signal transmission over the air can be tackled.

Fig. 1 accompanies the abstract.