

DATA STREAM DE-INTERLEAVING METHOD, DEVICE, AND SYSTEM

ABSTRACT

A data stream de-interleaving method is provided. The method includes: obtaining a first interleaved data stream on which forward error correction FEC encoding is performed; obtaining, based on an interleaving granularity of the first interleaved data stream, N sub-data streams corresponding to the first interleaved data stream, where N is an interleaving depth of the first interleaved data stream, and N is a positive integer greater than 1; determining a de-interleaving position based on FEC codeword boundaries of at least two of the N sub-data streams; and obtaining a first de-interleaved data stream based on the de-interleaving position and the first interleaved data stream. According to the method, de-interleaving can be completed and data can be correctly restored without inserting additional fixed data segments dedicated to searching for the de-interleaving position. In this way, adding of additional data is avoided, hardware resources are saved, de-interleaving efficiency is improved, transmission costs are reduced, and network efficiency is improved.

(FIG.7)