METHOD OF ERROR CORRECTION OF READ-OUT DATA FROM DATA STORAGE MEDIUM AND ERROR CORRECTION DEVICE

ABSTRACT

The subject of the present invention is to correct an error of read-out data from a data storage medium (10), particularly a bit shift error, regardless of an ECC.
Provided is a correction apparatus for correcting a read-out data error from a data storage medium, particularly an error correction apparatus comprising a gray bit detection circuit (12) provided in a read channel (11), and a RLL error correction circuit (17) and an error correction circuit (19) using a conversion table, both being provided in a decoder (16). The error correction apparatus can execute an On-the-fly Correction without degrading performance simultaneous decoding, regardless the number of errors.

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