METHOD FOR PROCESSING DEFECTIVE SECTORS IN A DISK STORAGE DEVICE, AND A DISK STORAGE DEVICE

Abstract

A method for processing a defective sector in a disk storage device, and such a disk storage device which can avoid the instantaneous performance degradation as much as possible. A predetermined check is executed (S3) related to a function of the disk storage device (Fig. 2), preferably at least one of a read test, write servo test or write test, when the disk storage device (Fig 2) is in a waiting state where the disk storage device (Fig 2) has no access from a host. The read test and write servo test are used to search for a defective sector on a disk and reassign the defective sector, and the write test is used to indicate an abnormal condition of a head. Furthermore, the disk storage device (Fig 2) includes a detector for detecting the waiting state, and a check logic for executing a predetermined check.

Fig 1