

ABSTRACT

SINGLE-SPEED MASS MEMORY STORAGE DEVICE WITH CONTINUOUSLY VARIABLE READ CHANNEL AND METHOD

A mass memory storage device for reading data stored on a mass memory storage medium 22 on which the data is stored at a substantially uniform density including a support arrangement 20 configured to receive and support the medium. A drive arrangement 24 is operatively connected to the support arrangement 20 such that the drive arrangement 24 rotates the medium at a substantially constant rotational speed when the device is operated in its intended way. A read head 26 for reading the data stored on the medium is positioned adjacent to the medium with the read head being movable relative to the medium. A read channel arrangement 28 for processing the data read by the read head is operatively connected to the read head. The read channel arrangement 28 has a substantially continuously variable read channel data processing rate which varies according to the rate at which the read head reads the data from the medium. In a preferred embodiment, the device is a CD drive.

Figure 2