

Category: 2009 A: Turns out the file I downloaded came directly from AOL. While it is not a virus, the file name doesn't look legit. I have contacted them to remove the downloaded file and they are taking care of it.

1. Field of the Invention The present invention relates to a magnetic disk apparatus that uses a mechanism for positioning a magnetic head and more particularly relates to a magnetic disk apparatus of magnetic recording type wherein tracks are formed on a disk for the purpose of recording digital data, such as a magnetic disk apparatus used for a hard disk drive that is used as a main storage device for a personal computer, a server and the like, and a magnetic disk apparatus used for an external memory for a workstation, a server and the like.

2. Related Art Conventional magnetic disk apparatuses used for external memories for personal computers, servers and workstations and the like include a type that has a magnetic head mounted on an arm provided with an actuator, thus enabling the magnetic head to be moved toward the rotational axis of the disk by the actuator and a type that has no actuator and carries out positioning using a head with a greater flying height. For example, in the magnetic disk apparatus shown in FIG. 25, on the surface of a disk 50, a plurality of spiral tracks 51 are formed at a uniform radial interval, and digital data can be recorded or reproduced on or from the tracks 51. An arm 52 carrying a head 53 is arranged opposed to the disk 50, and a voice coil 57 and a magnet 56 are provided within the head 53. The voice coil 57 is connected to a voice coil motor 58. The voice coil motor 58 includes a voice coil 57, a stationary magnetic yoke 60 and a magnetic plate 59. The magnetic plate 59 is arranged between the voice coil 57 and the stationary yoke 60. The stationary yoke 60 is fixed to a housing 31. The head 53 is carried out to the surface of the disk 50 by means of a head carriage 56 carrying the head 53 via a suspension 62. The head 53 carries out a seek operation to a desired track 51 of the disk 50 in accordance with an input signal from a system controller. As mentioned above, in conventional magnetic disk apparatuses of magnetic recording type, the seek operation is performed to the desired track 51 in accordance with a spiral track 51. However, as the track width has been reduced, the effect of an edge effect by which

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