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DISK DRIVE DEVICE WITH SHOCK RESISTANCE FLEXURE AND RAMP
LIMITED SYSTEM

ABSTRACT

The present invention prevents a head/slider assembly fixed on a flexure of a head suspension assembly from having an undesired pitching motion when an unexpected excess shock is applied to a hard disk device when the head suspension is at the best position of the unload ramp.

A Disk drive device comprising: a rotating disk (21); a head suspension assembly (22) containing a front and a rear portion, the front portion provided with a tab (28A); means to move the front portion between an inner position and an outer position; a ramp (24) containing a surface (25) for engaging the tab (28A) where the ramp element (24) is provided with an extended member which faces a surface of the front portion with a pre determined space when the tab of the head suspension assembly engages with the support surface of the ramp element.

Fig. 5

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