

MAGNETIC RECORDING DISK DRIVE WITH CONTINUOUS CONTACT AIR-BEARING SLIDER

Abstract of the Disclosure

A magnetic recording disk drive achieves continuous contact recording with a head-suspension assembly that compensates for the moment generated from an adhesive force between the head carrier or slider and the disk. The slider pivot point, which is the point where the load force is applied to the flexure that supports the slider, is located closer to the front end of the slider than the net force applied by the air-bearing surface of the slider when the disk is rotating at its operational speed. This assures that the net air-bearing force generates a moment about the pivot point to partially counteract the flexure moment and the moment generated from the adhesive force between the disk and the slider's contact pad.

Figure 6