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AbstractControlling motions of a head actuator assembly of a hard disk drive

- 5 A head actuator assembly for supporting and moving a reading/writing head of a hard disk drive comprises a number of arms, a corresponding number of suspensions supported by the arm and for supporting corresponding heads (usually via gimbals). Piezoelectric elements are provided on the arms to deform the arms to as to move the heads. The piezoelectric elements can be
- 10 controlled, either via external signals or via signals they generate themselves, to suppress vibrations in the assembly, and/or to control the positioning of the head in relation to the recording medium such as by controlling the flying height.

[Fig. 2a]