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(54) Title: A SYSTEM AND METHOD FOR CONTROLLING A SEEK OPERATION IN A DISK DRIVE

(57) Abstract

A disk drive, comprising a storage medium having data tracks for storing data, a spindle motor mounting the storage medium for rotation, an interactive element for reading information from and writing information on the data tracks of the storage medium and an actuator responsive to control signals, mounting the interactive element for motion to selectively position the interactive element relative to preselected data tracks of the storage medium and to move the interactive element from a first data track to a second data track in response to the control signals. The interactive element is arranged and configured to fly above the storage medium. Moreover, control electronics are coupled to the actuator for generating the control signals to cause the actuator to move the interactive element from the first data track to the second data track. The control signals include velocity control signals generated as a function of the number of data tracks to be crossed from the first data track to the second data track, and the location of the first data track relative to the second data track. The velocity control signals control the actuator to move at preselected velocities, including a maximum velocity.