

METHOD AND SYSTEM FOR PROVIDING SPINDLE MOTOR CONTROL FOR HEAD LOADING IN A DISK DRIVE

ABSTRACT

Method and system aspects for controlling spindle motor (16) speed during head loading in a disk drive are described. The aspects include inputting a time-varying reference velocity profile signal, and selecting a controller (32) to control spindle motor (16) speed. Further included is feeding forward control signals (30) sufficient to precompensate for drag during a head loading event and maintain spindle motor (16) speed within an operating tolerance.

FIG. 3