

ACTIVE DAMPING OF TWO-STAGE ACTUATOR SYSTEM IN A DISC DRIVE

ABSTRACT OF THE DISCLOSURE

5 An actuator control system for a two-stage actuator system of a
disc drive has a first, or primary, stage actuator consisting of a voice coil
motor that positions the head relative to a disc and a microactuator that
alters the actuator system without operation of the voice coil motor. A
control loop includes a controller responsive to seek commands to
10 operate the voice coil motor, thereby moving the head relative to the
disc. An active damping circuit is coupled to the head to operate the
microactuator to damp resonance modes of the actuator system.

FIG. 3

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