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ABSTRACT OF THE DISCLOSURE

BEARING DEVICE WITH DAMPING MECHANISM

162162

A head assembly supports an arm for angular displacement about an axis in a disk drive. The bearing assembly includes a fixed shaft 3, a plurality of bearings 6 and 7, a sleeve 4 and dampers 8. The bearings 6 and 7 are disposed about the shaft 3. The sleeve is coupled to the bearings 6 and 7 for angular displacement about the shaft 3, and one or more dampers 8 are coupled to the sleeve. Each damper includes a plurality of holding portions and one or more damping masses. The holding portions are arranged circumferentially about the axis of the shaft as an axis of rotation of the arm, and distance between each adjacent two damping portions is approximately equal to each other, each holding portion has an inner space.

The damping masses are movably accommodated in the inner space of the respective holding portions. The energy of the vibration of the head and the arm is absorbed in a short time by movements of the damping masses and by frictions between the damping masses and inner surface of the holding portion, and/or by collisions of the damping masses.

FIG. 1



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