

A DISK RECORDING SYSTEM AND A METHOD OF CONTROLLING
THE ROTATION OF A TURNTABLE IN SUCH A DISK
RECORDING SYSTEM

ABSTRACT

5 A disk recording system for disks such as
videodisks or compact disks has a turntable (2) on
which the disk (1) is supported adjacent a recording
head (10). A shaft (3) defining the axis of rotation
of the turntable rotates in a bearing (4) and that
10 bearing (4) is itself movable about an axis defined by
another shaft (8). The bearing (9) of the shaft (8)
is an air bearing and there is a damper unit (18) for
damping that movement. There may be a sensor (14) for
detecting the rate of rotation of the shaft (3)
15 defining the axis of rotation of the turntable (2).
The radial displacement of the head (10) relative to
the axis of the turntable (2) may be determined on the
basis of rotation of the other shaft (8), and the
rotation of the turntable controlled on the basis of
20 the product of signals representing the radial
displacement and the rate of rotation of the shaft (3)
respectively.

FIGURE 1