

DUAL MODE AUTO-BALANCER FOR DVD DRIVES

ABSTRACT

A (DVD) drive unit (11) for a variety of optical media including DVD discs or CD-ROM discs is capable of eliminating vibration while rotating and reading the optical media at either a constant linear velocity (CLV) or a constant angular velocity (CAV). In CAV mode, the drive unit (11) uses ball bearings (31) which are movable within a cavity (33) in the turntable (17) to counterbalance an unbalanced disc. In CLV mode, the drive unit (11) utilizes a series of electromagnets to capture and symmetrically array the ball bearings (31) within the cavity (33) around the turntable (17).

Fig.1