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CORDLESS COMPRESSION MOTOR CONNECTOR FOR A HARD DISK DRIVE

ABSTRACT

A cordless compression motor connector (11) connects a spindle motor (41) inside a hard disk drive enclosure to a printed circuit board (PCB) (43) mounted outside the disk enclosure. The disk enclosure includes a base casting formed with a lipped aperture (49). The connector (11) includes a rigid, cantilever-like insulating body having conductors supported therein. The conductors terminate at the resilient spring contacts (33) located at both ends of the connector body. One end of the connector body (15) is secured to the PCB (43) with a screw (45) such that the resilient contacts (35) on one end are compression connected to contacts on the PCB (43). The other end of the connector body passes through the aperture and reacts against the lip in the base casting. Contacts formed on the spindle motor (41) are compression connected to the electrical contacts on the other end of the connector body.

FIG 2