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DISK DRIVE WITH COMPOSITE SHEET METAL AND ENCAPSULATED PLASTIC CASE

ABSTRACT

A Miniature removable disk drive is disclosed. The disk drive uses a composite sheet metal/plastic tub-shaped base (10) for supporting the disk drive components . The composite base (10) is a metal plate (12) with a flange (26,28,29) extending around its perimeter and a plastic frame (14) that encapsulates the flange (26,28,29) and surrounds the perimeter of the metal plate (12). The metal plate (12) supports the disk drive spindle motor and voice coil motor actuator and is made of high magnetic permeability, low coecivity material so that it can form part of the magnetic circuit of the spindle motor and /or actuator. An electronics card is located beneath the metal plate (12) and is electrically shielded from the read/write heads and electronics module by the metal plate (12). Top and bottom covers are attached to the frame to enclose the disk drive components and the electronics card.

FIG.1

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