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(72) and (74) continued overleaf

(54) A disk drive

(57) A data storage disk drive is provided with a spindle 42 which supports a plurality of disks 110 for rotation about a common axis, and a rotary actuator 20 which supports magnetic transducers for movement in unison across respective disk surfaces. The disk drive includes a disk drive enclosure having die-cast generated predetermined zero draft registration surfaces 30 - 40 for mounting the spindle motor shaft 42 and the actuator bearing shaft 44 and possibly magnet assemblies 46, 48. The enclosure includes a base casting 14 and a cover casting 16, each casting including structure (figs. 7 - 9) for locating and retaining electrical connectors used for connecting to a planar electronics card (90) located outside the drive enclosure. The disk drive includes an effective and easily manufacturable electrical path from a flex circuit to an actuator comb (figs. 11 - 13). The disk drive also includes a tubular, at least partly electrostatic, chemical breather filter (58) arranged with integral housing and diffusion channels (59) formed in the cover casting (figs. 14 - 24).

FIG. 1

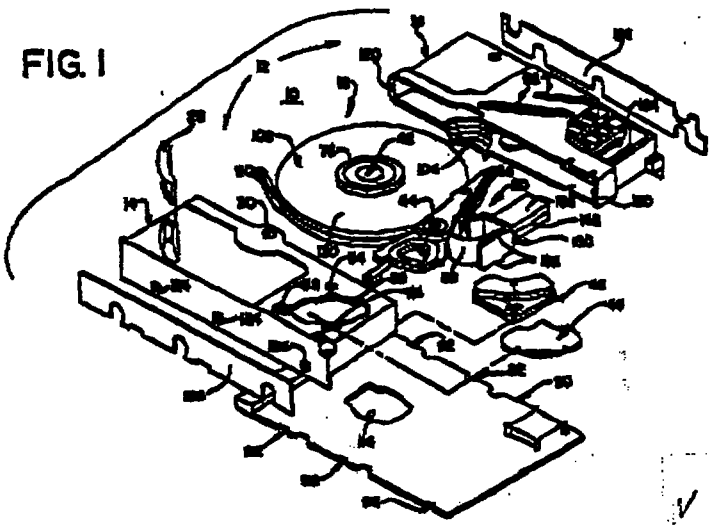
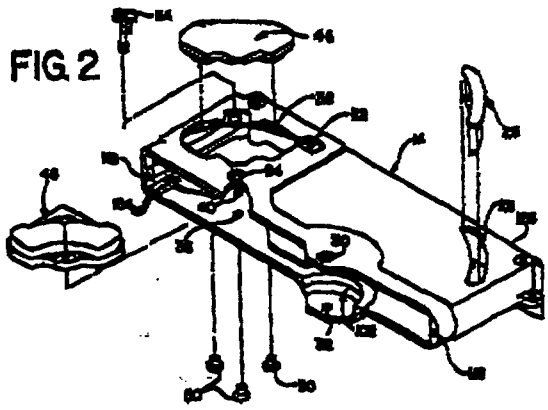


FIG. 2



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