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DISK DRIVE WITH CHEMICAL FILTER

ABSTRACT

A data recording disk drive has a breather filter assembly that removes both chemical contaminants and particulate matter. The filter assembly includes a housing 72 having an internal passage 81, 82, 83 and a recess that supports and contains the chemical 72 and particulate 78 filter elements. The passage in the filter housing provides fluid communication between the breather opening 64 and a sheet of chemical filter material. A barrier plate 74 is also located in the filter housing recess adjacent to the side of the chemical filter sheet not exposed to air from the passage. The barrier plate prevents air from flowing through the chemical filter material and redirects the air flow across the surface of the chemical filter sheet. After the air flows by the chemical filter sheet, it is directed through the particulate filter element and into the disk drive enclosure.

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