CONTAMINANT REDUCTION SYSTEM FOR DISK DRIVES

ABSTRACT

A contaminant reduction system is shown for a disk drive assembly (11) having a closed interior (15) and slider disk components located therein which would be adversely affected by condensed volatiles generated within the assembly (11). A Peltier element (23) is located within the closed interior (15) of the disk drive assembly (11) so as to condense volatiles present within the interior at a desired condensation point within the closed interior (15). A getter material (27), such as a microporous sintered alumina, is located within the closed interior (15) of the disk drive assembly (11) at the condensation point for permanently trapping and maintaining condensed volatiles which are condensed by the Peltier element (23).

Fig. 1