METHOD AND APPARATUS TO
CONTROL AIRFLOW IN HARD DISK DRIVES

Abstract

A method for reducing air turbulence in a hard disk drive system is provided. The method begins by providing a hard disk drive having a spindle motor to spin a hard disk. When the drive is in operation, the spinning hard disk generates unwanted airflow, which may destabilize a read/write head supported by an actuator arm. By using an air separator having a number of grooves, the airflow may be directed to reduce air turbulence.

Figure 1