METHOD OF AND APPARATUS FOR MONITORING FLOW OF LUBRICANT VAPOR FORMING LUBRICANT COATINGS OF MAGNETIC DISKS

ABSTRACT

Lubricant coatings are applied as lubricant vapor to magnetic disks in a lubricant vapor flow path between the disks and a reservoir for liquid lubricant that is heated to the vapor. The flow path includes a vapor chamber between the reservoir and an apertured diffuser. Plural piezoelectric crystals selectively, at different times, monitor the flow rate of lubricant vapor flowing in the vapor chamber, a result achieved by selectively positioning a shutter that is selectively opened and closed between the vapor flowing in the vapor chamber and the crystals. Temperature variations of the crystals are compensated by a feedback arrangement for maintaining the crystal temperature constant.

Figure 1