

HIGH PERFORMANCE DISK DRIVE LIMIT STOP EMPLOYING ENCAPSULATED VISCO-ELASTIC

ABSTRACT

A limit stop (60) for a magnetic storage system having a combination of visco elastic inner core (68) and a thin walled outer shell (69) enclosing the visco-elastic material (68), and a method of manufacturing the same. The thin wall is hermetically sealed to isolate the inner core material (68) and eliminate the possibility of contamination to the disk drive interior. The visco-elastic inner core (68) has the properties of very good energy dissipation, while the outer shell (69) provides high dimensional control and stability.

Fig. 3