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DISK-DRIVE CHASSIS FOR REDUCING TRANSMISSION OF VIBRATIONS BETWEEN DISK-DRIVE UNITS OF A DISK-DRIVE ARRAY

ABSTRACT

A disk-drive chassis (10) of the invention has stiffening and damping members for reducing the transmission of vibrations between disk-drive units (14) of a disk-drive array. The stiffening members include vertical dividers that are mechanically coupled between top and middle panels of the chassis (10). The stiffening members also include a corrugated stiffener (78) attached to a bottom surface of the middle panel (52). The stiffener's (78) corrugations are aligned parallel with a spindle axis (20) of the respective disk-drive units (14). The damping member includes a constrained-layer damping plate (64) which is attached to a top surface of the top panel (50) by a visco-elastic damping adhesive (66). The chassis (10) allows improved performance by the individual disk-drive units (14).

FIG.3



