Abstract of the Disclosure

FLEX CIRCUIT HEAD MODULE WITHIN A TAPE DRIVE

A flex circuit for a tape drive includes an elongated flexible printed circuit substrate carrying a pattern of electrical circuit interconnections and divided into a read channel portion for direct connection to multiple read and write heads of a tape head array and carrying a plurality of read channel preamplifiers connected to receive and amplify read signals from a plurality of read heads; a write channel portion including an external connection region for enabling signal and power connections to be made with a host circuit module, the write channel portion including a plurality of write channel drivers; and, a dynamic flexing portion separating and interconnecting the read channel portion and the write channel portion, the dynamic flexing portion adjusting in contour as positional adjustments are made to the head array by a head positioning mechanism. As a related aspect, the flex circuit is secured to a head mounting plate which secures the tape head array, thereby forming a stand-alone multi-track tape head module.

FIGURE 2