

MAGNETIC TAPE DRIVE

ABSTRACT

A magnetic tape drive suitable for an auto-reverse tape recorder has a pair of reel-base gears, a pair of capstans, a pair of pinch rollers, a drive mechanism, a switching mechanism and an oscillating mechanism. The pair of reel-base gears engages a pair of reels between which a magnetic tape is wound. The pair of capstans drives the magnetic tape bidirectionally. The pair of pinch rollers drives the magnetic tape in selected direction by selectively abutting the pair of capstans respectively. The drive mechanism selectively drive one of the two reel-base gears and meshes with a cam gear to drive meshed reel-base gear rotatively. The switching mechanism switches the magnetic tape from one of the running directions to the other and is reciprocated at the end of magnetic tape. The oscillating mechanism reciprocates the switching mechanism.

Figure 4