

ABSTRACT
DISC CHANGER

A conventional disc changer uses separate elevating cams, separate connection mechanisms, and separate locking mechanisms to effect driving of the elevation and lowering of spindles constituting a disc holding means and of a disc clamp means at a recording/playing position. Thus, the apparatus is complicated and large, and loads on the elevating cams significantly vary when the drivings of the elevating and lowering of the spindles constituting the disc holding means and the disc clamp means are simultaneously carried out. Consequently, during the elevating driving, the driving force may become insufficient to cause unstable operations, while during the lowering driving, high operating noise may occur. According to the present invention, an elevating means for elevating and lowering the spindles constituting the disc holding means and a disc playing means is configured so that a single part simultaneously performs these operations. Since the same part is driven to perform these operations, elevating and lowering timings for the spindles and the disc playing means can be easily matched to enable the elevation and lowering without changes in the gap between a played disc being elevated or lowered and held discs in a housing section, thereby preventing the discs being elevated or lowered from contacting with each other.

Figure 8.



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