

ABSTRACT



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DISC CHANGER



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According to the invention, there is a disc changer 1 including a plurality of trays T which respectively can be loaded with discs D, can be moved substantially in a horizontal direction parallel to main surfaces of the discs D, a tray driving gear unit 20 capable of shuttling the trays between a standby position Y and a disc exchange position X, a gear driving mechanism driven by an electrical motor to generate driving force for driving the tray driving gear unit 20, a tray triggering unit 50 capable of locking/unlocking the trays T in the standby position Y, the unit capable of pushing all trays T to engage with the tray driving gear unit 20 after unlocking the trays T and capable of driving the trays T outward from a mechanical chassis 3 toward the disc exchange position X, a recording/reproducing unit 70 for recording and/or reproducing information signal on a disc D placed on a turntable 9, and an elevation unit 30 capable of moving the recording/reproducing unit 70 with the turntable 9 in a vertical direction, wherein the tray driving gear unit 20 can be used for checking the discs D by driving all trays T to protrude outward from the mechanical chassis 3 to the disc exchange position X, the tray driving gear unit 20 is capable of individually driving the trays T from the disc exchange position X to the standby position Y from top to bottom, and each disc D can be checked until its tray T is closed.

[Figure 1]