

ABSTRACT

DISC CHANGER

According to the invention, there is provided a disc changer 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 T 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 to align the recording/reproducing unit 70 to a tray T and place a disc D on the tray onto the turntable 9, wherein the trays T in the standby position Y locked by the tray triggering unit 50 are unlocked and all trays T are pushed to engage with the tray driving gear unit 20 by operating the tray triggering unit 50, and all trays T are ejected outward from the mechanical chassis 3 by a predetermined tray stroke, thereafter the trays T are driven by the tray driving gear unit 20 back to the standby position one by one from top to bottom, and when the last tray T reaches the standby position Y the tray triggering unit 50 locks all trays T in the standby position Y.

[Fig. 1]



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