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Abstract

A mechanical timepiece according to the invention includes a mainspring, a front train wheel and an escapement & speed control apparatus. The escapement & speed control apparatus includes a balance with hairspring, an escape wheel & pinion and a pallet fork.

The mechanical timepiece according to the invention further includes a crystal oscillator constituting an oscillation source, IC including a dividing unit for outputting a signal with respect to time by inputting an output signal outputted by oscillating the crystal oscillator and dividing the output signal and an electricity storing member for operating IC. The mechanical timepiece according to the invention further includes a rate detecting unit for detecting a rate of the mechanical timepiece and a balance power generation control unit constituted to control a period of rotational oscillation of the balance with hairspring based on a divided signal divided by the dividing unit and an operational state signal indicating the rate detected by the rate detecting unit and generate power by the rotational oscillation of the balance with hairspring.

By the constitution, rotation of the balance with hairspring can be controlled accurately and the rate of the mechanical timepiece can be adjusted accurately.