

Abstract

A mechanical type timepiece of the invention is provided with a mainspring constituting a power source, a front train wheel rotated by rotational force when the mainspring is rewound and an escapement & speed control apparatus for controlling rotation of the front train wheel. The escapement & speed control apparatus includes a balance with hairspring alternately repeating right-hand rotation and left-hand rotation, an escape wheel & pinion rotated based on rotation of the front train wheel and a pallet fork for controlling rotation of the escape wheel & pinion based on operation of the balance with hairspring. The balance with hairspring includes a hairspring, a balance stem and a balance wheel.

The mechanical type timepiece according to the invention further includes a crystal oscillator constituting an oscillation source, IC including a dividing unit for inputting an output signal outputted by oscillation of the crystal oscillator, dividing the signal and outputting a signal with regard to time and a power source for operating IC and is provided with a time measuring unit for counting time and a train wheel operation detecting unit for detecting a rotational operation state of the train wheel. The mechanical type timepiece according to the invention is further provided with a train wheel operation control unit for controlling

operation of the train wheel based on a count signal counted by the time measuring unit and an operational state signal indicating a rotational operation state of the train wheel detected by the train wheel operation detecting unit.