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Abstract



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The present invention relates to a rate adjusting method of a mechanical type timepiece including a movement constituted to include a mainspring constituting a power source of the mechanical type timepiece, a front train wheel rotated by a rotational force in rewinding the mainspring and an escapement & speed control apparatus for controlling rotation of the front train wheel, the escapement & speed control apparatus including a balance wheel 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 and the balance with hairspring including a hairspring, a balance stem and a balance wheel.

According to the rate adjusting method of the mechanical type timepiece of the invention, firstly, the movement 100 of the mechanical type timepiece is assembled. Further, rates are measured with regard to a plurality of "vertical attitudes" in a state in which the assembled movement 100 is arranged in "vertical attitude". The magnitude and the direction of an attitude difference vector are calculated based on a result of measuring the rates. Further, based on a result of calculating the magnitude and the direction of the attitude

difference vector, a weight amount to be added to the balance wheel 140b or a weight amount to be removed from the balance wheel 140b is calculated and a position of the balance wheel 140b to be added with the weight amount or to be removed of the weight amount is calculated. Further, the weight amount is added to the balance wheel 140b or the weight amount is removed from the balance wheel 140b based on a calculation result for calculating the weight amount to be added to the balance wheel 140b or the weight amount to be removed from the balance wheel 140b and the position of the balance wheel 140b to be added with the weight amount or the position of the balance wheel 140b to be removed of the weight amount.