

Title (en)

FREE DIRECT ESCAPEMENT MECHANISM FOR WATCHES.

Title (de)

FREI DIREKTHEMMUNG MECHANISMUS FÜR UHREN.

Title (fr)

MÉCANISME D'ÉCHAPPEMENT DIRECT LIBRE POUR PIECE D'HORLOGERIE

Publication

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Application

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Abstract (en)

[origin: WO2019201977A1] The invention relates to a direct-impulse free escapement mechanism (1) for a timepiece, having an escapement wheel (2) that extends in a plane PI and is provided with a set of peripheral teeth (3), a locking device (4) having at least one locking pallet (41) designed to cooperate in abutment with a tooth (3) of the escapement wheel (2) in at least one locking position of said locking device (4), and at least one control pallet (6) actuated by a pivoting regulator member (5) in order to cooperate with at least one complementary disengagement member (44) of the locking device (4) in order to disengage, on each alternation of said regulator member (5), the locking device (4) from the escapement wheel (2) into a disengaged position. The mechanism also has impulse pallets (9) that are able to be secured to said regulator member (5) in order to cooperate on an impulse plane with a tooth (3) of the escapement wheel (2) in order to transmit a direct impulse to said regulator member (5). According to the invention, the locking device (4) is designed to be pulled by the escapement wheel (2) into each locking position, and in that the teeth (3) of the escapement wheel (2) and the impulse pallets (9) are configured and designed such that the impulses occur outside the plane PI of the escapement wheel (2). The invention also relates to a timepiece provided with such an escapement mechanism.

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