

Title (en)

MAGNETIC CLOCK ESCAPEMENT AND DEVICE FOR CONTROLLING THE OPERATION OF A CLOCK MOVEMENT

Title (de)

MAGNETISCHE ANKERHEMMUNG, UND GANGEINSTELLVORRICHTUNG EINES UHRWERKS

Title (fr)

ECHAPPEMENT MAGNETIQUE HORLOGER ET DISPOSITIF REGULATEUR DE LA MARCHE D'UN MOUVEMENT HORLOGER

Publication

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Application

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Abstract (en)

[origin: WO2016037938A1] The magnetic timepiece escapement (12), and respectively the regulator device comprising such an escapement, comprises a first circular network (3) formed from N1 magnetic lines (4) and a second circular network (9) formed from N2 magnetic lines (10), the number N2 being different from the number N1. The first and second networks are superimposed in such a way as to define a combined pattern (14) presenting a magnetic Moiré effect. The combined pattern is magnetically coupled to at least one magnet of a resonator for pacing the operation of a mechanical timepiece movement. The first magnetic structure is carried by an escapement wheel and can turn relative to the second fixed magnetic structure with an angular frequency F1. The combined pattern turns with an angular frequency F2 greater than or equal to the angular frequency F1 multiplied by the number N1 and divided by the number ΔN equal to said number N1 minus the number N2, i.e. $F2 = F1 \cdot N1 / \Delta N$.

IPC 8 full level

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