

Title (en)

SOURCE OF MECHANICAL ENERGY FOR A CLOCK MOVEMENT WITH PRESET OUTPUT TORQUE

Title (de)

MECHANISCHE ENERGIEQUELLE FÜR EIN UHRWERK MIT VOREINGESTELLTEM ABTRIEBSDREHMOMENT

Title (fr)

SOURCE D'ENERGIE MECANIQUE POUR MOUVEMENT HORLOGER A COUPLE DE SORTIE PREDEFINI

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Application

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Abstract (en)

[origin: WO2012168443A2] The present invention relates to a mechanism designed to deliver mechanical energy to a finishing gear train of a clock movement in the form of a predefined output torque transmitted to a first mobile (20, 120) of the finishing gear train. The mechanism comprises a barrel (1) mainspring (3), one end of which is secured to a shaft (5, 105) and the other end of which is secured to a drum (2, 102), one of these being intended to be connected kinematically to the finishing gear train, and a set of gears designed to provide a kinematic connection between the ends of the spring and allow the transfer of mechanical energy between them. The set of gears comprises a planetary gear set (24, 26, 28, 30, 32, 34, 102, 126, 128, 130, 132, 134) having a first input - output (24, 134) intended to be connected to a winding mechanism (7) that resets said main spring (3), a second input - output (34, 102) connected to one end of the main spring and a third input - output (30, 130) connected to the other end of the main spring. In addition, the planetary gear set comprises a planet gear (26, 126) comprising a first non-circular gear wheel (28, 128) set in mesh with a first non-circular sun gear (30, 130).

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