Title (en)

TIMEPIECE REGULATOR MECHANISM WITH HINGED RESONATORS

Title (de)

UHRREGLERMECHANISMUS MIT ÜBER GELENKE VERBUNDENEN RESONATOREN

Title (fr)

MÉCANISME RÉGULATEUR D'HORLOGERIE À RÉSONATEURS ARTICULÉS

Publication

EP 3561605 B1 20201028 (FR)

Application

EP 19159418 A 20180425

Priority

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- EP 18169314 A 20180425

Abstract (en)

[origin: JP2019191156A] To provide a mechanical timepiece regulator having flexible pivots which is insensitive to disturbances during wear and shocks and easy to produce and has the best possible efficiency.SOLUTION: A timepiece regulating mechanism 300 includes: inertial weights 102, 202 to pivot relative to fixed structures 101, 201; primary resonators 100, 200; flexible strips 103, 203 by which to suspend the inertial weights 102, 202 from the fixed structures 101, 201; and mechanical synchronization means for synchronizing the primary resonators 100, 200. The mechanical synchronization means includes an articulated connection between the inertial weights 102, 202. Under normal conditions, the articulated connection allows the inertial weights 102, 202 to pivot in opposite directions of rotation and with close rotation angles; and, in the event of a shock, the articulated connection prevents the inertial weights from pivoting in the same direction of rotation. The mechanism includes an oscillator with a frictional rest escapement mechanism 400 arranged to cooperate alternately with the primary resonators 100, 200.SELECTED DRAWING: Figure 5

IPC 8 full level

G04B 15/14 (2006.01); **G04B 15/06** (2006.01); **G04B 17/04** (2006.01)

CPC (source: CN EP US)

G04B 15/06 (2013.01 - EP); **G04B 15/08** (2013.01 - US); **G04B 15/14** (2013.01 - CN EP); **G04B 17/045** (2013.01 - EP); **G04B 17/30** (2013.01 - CN); **G04B 17/32** (2013.01 - US)

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