

Title (en)

SHOCK PROTECTION OF A RESONATOR MECHANISM WITH ROTATABLE FLEXIBLE GUIDING

Title (de)

STOSSDÄMPFUNGSSCHUTZ EINES RESONATORMECHANISMUS MIT FLEXIBLER DREHFÜHRUNG

Title (fr)

PROTECTION ANTICHOC D'UN MÉCANISME RÉSONATEUR À GUIDAGE FLEXIBLE ROTATIF

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Application

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Priority

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Abstract (en)

[origin: CN116224741A] The invention relates to a timepiece resonator mechanism (100) comprising a structure (1) carrying, via a flexible suspension system (300), an anchoring unit (30) on which an inertial element (2) is suspended, the inertial element (2) oscillating with a first rotational degree of freedom RZ about a pivot axis (D) extending in a first direction Z under the action of a restoring force of a flexible pivot (200), the flexible pivot (200) comprises longitudinal elastic strips (3), each fixed to the inertial element (2) and to the anchoring unit (30), the flexible suspension system (300) allowing the anchoring unit (30) to move in five degrees of freedom, the resonator (100) being a composite component made of at least two different materials, on one hand, for the flexible pivot (200), on the other hand, for the flexible pivot (200), on the other hand, and on the other hand, for the flexible suspension system (300). Another aspect is used for a flexible suspension system (300).

IPC 8 full level

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