Title (en)

TIMEPIECE RESONATOR MECHANISM

Title (de)

RESONATORMECHANISMUS EINES UHRWERKS

Title (fr)

MÉCANISME RÉSONATEUR D'HORLOGERIE

Publication

EP 3200029 B1 20210519 (FR)

Application

EP 16153274 A 20160129

Priority

EP 16153274 A 20160129

Abstract (en)

[origin: JP2017134070A] PROBLEM TO BE SOLVED: To improve the timepiece resonator mechanism with a two-dimensional crossed-strip pivot.SOLUTION: A resonator mechanism 1 comprises a flexure pivot mechanism 10, and a first fixed support 11 and a second fixed support 12 to which is attached, respectively by a first resilient assembly 21 and a second resilient assembly 22 which together define a virtual axis A, a rotary support 3 holding a pivoting weight 2. The flexure pivot mechanism 10 is planar. The first resilient assembly 21 includes, on either side of the virtual axis A, a first outer flexible strip 31 and a first inner flexible strip 41, joined to each other by a first intermediate strip 51 stiffer than each of the strips, which strips together define a first direction D1 passing through the virtual pivot axis A. The second resilient assembly 22 includes a second flexible strip defining a second direction D2 passing through the virtual pivot axis A.SELECTED DRAWING: Figure 6

IPC 8 full level

G04B 15/14 (2006.01); **G04B 17/04** (2006.01); **G04B 17/10** (2006.01)

CPC (source: CH CN EP KR RU US)

G04B 15/14 (2013.01 - EP RU US); **G04B 17/04** (2013.01 - CN KR RU); **G04B 17/045** (2013.01 - CH EP RU US); **G04B 17/06** (2013.01 - RU US); **G04B 17/10** (2013.01 - CN EP KR RU US); **G04C 3/02** (2013.01 - KR RU); **G04C 3/08** (2013.01 - KR)

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DOCDB simple family (publication)

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