

Title (en)
Regulator-free oscillation system for a clock

Title (de)
Rückerlooses Schwingsystem für eine Uhr

Title (fr)
Système vibratoire sans regulateur pour une horloge

Publication
EP 1918791 B1 20090610 (DE)

Application
EP 07020869 A 20071025

Priority
DE 102006052245 A 20061103

Abstract (en)
[origin: EP1918791A1] The system has a spiral spring (1) comprising an inner fixing point (4) connected with a balance staff by a spiral roller (2) and an outer fixing point (14) connected with a stud (6) by a retaining element. An end region of the spiral spring adjacent to the retaining element is movably positioned in a plane perpendicular to the balance staff. The end region is pivotably movable around axis, which is parallel to the balance staff. The outer fixing point is fixed at the stud, and the retaining element is adjustably movable radial to the balance staff.

IPC 8 full level
G04B 18/02 (2006.01)

CPC (source: EP US)
G04B 18/026 (2013.01 - EP US)

Citation (examination)
CH 37529 A 19070615 - LIARDET FELIX [CH]

Cited by
EP2315082A3; US8672535B2

Designated contracting state (EPC)
CH DE FR GB IT LI

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EP 1918791 A1 20080507; EP 1918791 B1 20090610; CN 101174132 A 20080507; CN 101174132 B 20101208;
DE 102006052245 A1 20080508; DE 502007000849 D1 20090723; JP 2008139290 A 20080619; JP 4976262 B2 20120718;
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JP 2007285473 A 20071101; US 98247907 A 20071102