

Title (en)
Hairspring with two spiral springs

Title (de)
Spirale mit zwei Spiralfedern

Title (fr)
Spiral à deux ressort-spiraux

Publication
EP 2570871 A1 20130320 (FR)

Application
EP 11181307 A 20110914

Priority
EP 11181307 A 20110914

Abstract (en)
The spring (37) has a hairspring (41) whose inner coil has a collet (40) arranged on a mounting structure (32). Another hairspring (43) is connected to the outer coil of the hairspring (41). An inner coil of the hairspring (43) has a device (47) for shifting the pinning point comprising a free end arranged to be secured to a balance spring stud in the plane of hairspring (43). The shifting device has a structure (42) connected to the inner coil through an u-shaped bend extending from the inner coil of the hairspring (43) to avoid providing elastic torque. An independent claim is included for movement structure.

Abstract (fr)
L'invention se rapporte à un spiral (7, 37) comportant un premier ressort-spiral (11, 41) dont la spire interne comporte une virole (10, 40) agencée pour être montée sur un axe (2, 32), un deuxième ressort-spiral (13, 43) relié à la spire externe du premier ressort-spiral (11, 41) par un dispositif à élévation de courbe (15, 45). Selon l'invention, la spire interne du deuxième ressort-spiral (13, 43) comporte un dispositif de décalage (17, 47) du point pitonnage comprenant une extrémité libre (6, 36) agencée pour s'attacher à un piton (8, 38) dans le plan dudit deuxième ressort-spiral. L'invention concerne le domaine des résonateurs du type balancier - spiral.

IPC 8 full level
G04B 17/32 (2006.01)

CPC (source: EP US)
G04B 17/325 (2013.01 - EP US)

Citation (applicant)

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Citation (search report)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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EP 11181307 A 20110914; CN 201210342803 A 20120914; HK 13110947 A 20130925; JP 2012202313 A 20120914; RU 2012139263 A 20120913; US 201213609858 A 20120911