

Title (en)

Collet without deformation of the spiral fixing radius and fabrication method of such a collet

Title (de)

Spiralrolle ohne Deformation des Fixierungsradius der Spiralfeder und Herstellungsverfahren derartige Spiralrolle

Title (fr)

Virole sans déformation du rayon de fixation du spiral et procédé de fabrication d'une telle virole

Publication

EP 1584994 B1 20090121 (FR)

Application

EP 04008293 A 20040406

Priority

EP 04008293 A 20040406

Abstract (en)

[origin: EP1584994A1] A collet for mounting balance spring, is formed by a metal band whose inner contour includes a discrete number of points of contact with a balance staff distributed along angular apertures α and in that width "I" of the band varies such that the compression forces of the contact points on the staff do not alter the distance R after driving in, leading to a friction torque allowing annular orientation of the collet on the staff. A collet for mounting a balance spring (9), is formed by a metal band (10) whose inner contour (11) delimits recesses (11a-c) for driving the collet onto a balance staff (2) and whose outer contour (12) includes a function point between the collet and the balance spring located at the end (14) of an arm (14) at a distance R from the center 0 of the staff greater than that of any other point of the outer contour. The inner contour includes a discrete number of points of contact (1, 3, 5) with the staff, one of the points being aligned with the staff and the function point, the angular apertures α of the function points not being all identical. The portions of band opposite the points of contact not aligned with the staff and the join point (4) form function of greater width I 6, I 8 than the other parts of the band.

IPC 8 full level

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CPC (source: EP KR US)

G04B 17/34 (2013.01 - EP US); **G04D 1/00** (2013.01 - KR); **G04D 1/02** (2013.01 - KR); **G04D 1/04** (2013.01 - KR)

Cited by

FR2957688A1; EP3023844A1; EP1868045A1; EP1637940A3; EP3955064A1; EP1826635A1; EP2104007A1; US9658599B2; EP2104008A1; WO2009115463A1; US8523426B2; EP2104006A1; US9459589B2; EP2104005A1; EP2485095A1; US8550699B2; EP2105807A1; US8296953B2; US8622611B2; EP3913441A1

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