

Title (en)

Spring barrel delivering a constant torque

Title (de)

Ein, ein konstantes Drehmoment lieferndes, Federgehäuse

Title (fr)

Barillet à ressort délivrant un couple constant

Publication

EP 0649075 B1 19970102 (FR)

Application

EP 94115925 A 19941010

Priority

CH 308693 A 19931013

Abstract (en)

[origin: EP0649075A1] The drive spring (3) is coiled inside a barrel through an angle $\alpha = n2 \pi$ radians. The spring has a rectangular cross-section of constant width. At least a first portion of the spring extending from the wall (2) of the barrel towards the arbor (5) has an increasing thickness e chosen in such a way that the angle of coiling α times the value cubed of the thickness e has a constant value, ie $\alpha \cdot e^3 =$ constant. There is thus obtained, at least during the useful part, ie conventionally during the first 24 hours of running, a constant force delivered by the barrel and consequently a constant amplitude of the balance. <IMAGE>

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G04B 1/14

IPC 8 full level

F16F 1/10 (2006.01); **G04B 1/14** (2006.01)

CPC (source: EP US)

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