

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 alpha times the value cubed of the thickness e has a constant value, ie alpha .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>

IPC 1-7

**G04B 1/14**

IPC 8 full level

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

CPC (source: EP US)

**G04B 1/14** (2013.01 - EP US)

Cited by

WO2021260472A1; US11543775B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0649075 A1 19950419; EP 0649075 B1 19970102**; CH 685582 B5 19960229; CH 685582G A3 19950831; DE 69401328 D1 19970213; JP H07209438 A 19950811; US 5539708 A 19960723

DOCDB simple family (application)

**EP 94115925 A 19941010**; CH 308693 A 19931013; DE 69401328 T 19941010; JP 27310694 A 19941013; US 31291394 A 19940929