

Title (en)

Clock barrel with improved force transmission

Title (de)

Federgehäuse einer Uhr mit verbesserter Kraftübertragung

Title (fr)

Barillet d'horlogerie à transmission d'effort améliorée

Publication

EP 2977827 B1 20171115 (FR)

Application

EP 14177987 A 20140722

Priority

EP 14177987 A 20140722

Abstract (en)

[origin: US2016026152A1] Barrel (1) including a mainspring (2) cooperating internally with a core (4), externally with a track (6) of a drum (7) by means of a resilient sliding bridle (8). Said track (6) and said bridle (8) are of non-circular shape, nesting one inside the other in the free state of said bridle (8) and arranged to make one raised portion (12) of said bridle (8) abuttingly engage with a sill (11) of said track (6) when the torque applied to said bridle (8) is less than a torque limit value, and to allow radial constriction of said raised portion (12) when said torque is greater than said limit value, to allow the passage of said raised portion (12) over said sill (11) and to allow said bridle (8) to travel angularly under the effect of said torque until the next encounter between one said sill (11) and one said raised portion (12).

IPC 8 full level

G04B 1/10 (2006.01); **G04B 1/18** (2006.01)

CPC (source: EP US)

G04B 1/105 (2013.01 - EP US); **G04B 1/16** (2013.01 - US); **G04B 1/18** (2013.01 - US); **G04B 1/185** (2013.01 - EP US)

Cited by

WO2019207490A1

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

DOCDB simple family (publication)

EP 2977827 A1 20160127; **EP 2977827 B1 20171115**; CN 105319937 A 20160210; CN 105319937 B 20171013; HK 1222001 A1 20170616; JP 2016024193 A 20160208; JP 6014727 B2 20161025; US 2016026152 A1 20160128; US 9513601 B2 20161206

DOCDB simple family (application)

EP 14177987 A 20140722; CN 201510431371 A 20150721; HK 16109420 A 20160808; JP 2015141091 A 20150715; US 201514799842 A 20150715