

Title (en)
Timepiece cannon-pinion

Title (de)
Minutenrohr einer Uhr

Title (fr)
Chaussée d'horlogerie

Publication
EP 2881803 B1 20171004 (FR)

Application
EP 13196153 A 20131209

Priority
EP 13196153 A 20131209

Abstract (en)
[origin: CN104698803A] The invention relates to a watch cannon-pinion (1). The watch cannon-pinion including a first bore (2) for receiving a pivot-shank (3) including, on either side of a recess (4), a first shoulder (5) and a second shoulder (6). This cannon-pinion (1) is made in two parts and includes, on the one hand, a body (10) comprising internally the first bore (2) and externally a support shoulder (7), and on the other hand, a shape memory alloy ring (8) including a second bore (9), and, in the free state, the second bore (9) has a larger diameter than that of the support shoulder (7) when the ring is in a martensitic structure, and a smaller diameter than that of the support shoulder (7) when the ring is in an austenitic structure.

IPC 8 full level
G04B 13/02 (2006.01)

CPC (source: EP US)
G04B 13/02 (2013.01 - EP US); **G04B 15/06** (2013.01 - EP US); **G04B 17/06** (2013.01 - EP US); **G04B 17/325** (2013.01 - EP US); **G04B 19/044** (2013.01 - EP US); **G04B 18/026** (2013.01 - EP US); **Y10T 29/49581** (2015.01 - EP US)

Cited by
EP3617811A1; US11256216B2; US11507021B2

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 2881803 A1 20150610; EP 2881803 B1 20171004; CN 104698803 A 20150610; CN 104698803 B 20170412; HK 1209496 A1 20160401; JP 2015114321 A 20150622; JP 5925282 B2 20160525; US 2015160615 A1 20150611; US 9195217 B2 20151124

DOCDB simple family (application)
EP 13196153 A 20131209; CN 201410748780 A 20141209; HK 15110062 A 20151014; JP 2014245571 A 20141204; US 201414553186 A 20141125