

Title (en)

Tappet, injection pump and valve actuator comprising such a tappet and manufacturing method for such a tappet

Title (de)

Stößel, Einspritzpumpe und Ventilaktor mit einem solchen Stößel und Herstellungsverfahren eines solchen Stößel

Title (fr)

Poussoir, pompe à injection et actionneur de soupape comportant un tel poussoir et procédé de fabrication d'un tel poussoir

Publication

EP 2853699 B1 20160525 (EN)

Application

EP 13186518 A 20130927

Priority

EP 13186518 A 20130927

Abstract (en)

[origin: EP2853699A1] The invention relates to a mechanical system (1), comprising a tappet (10) including a body (11), a support element (20) defining two bores (258) centered on a first axis (X1), a pin (30) comprising two opposite ends each adapted to be fitted in one of the two bores (258), and a roller element (40) positioned between the two bores (258) along the first axis (X1) and movable in rotation relative to the pin (30) around the first axis (X1). According to the invention, the support element (20) is distinct from the body (11) and fixed thereto, and the support element (20) also comprises at least one antirotation device (24) integrally formed thereto. The invention also relates to an injection pump and a valve actuator comprising such a mechanical system (1). The invention also relates to a manufacturing method.

IPC 8 full level

F01L 1/14 (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F02M 59/48** (2006.01); **F04B 1/00** (2006.01)

CPC (source: EP US)

F01L 1/14 (2013.01 - EP US); **F02M 59/102** (2013.01 - EP); **F02M 59/445** (2013.01 - EP); **F02M 59/48** (2013.01 - EP); **F04B 1/00** (2013.01 - EP US); **F01L 2305/02** (2020.05 - EP); **F01L 2307/00** (2020.05 - EP); **F02M 2200/8061** (2013.01 - EP); **F02M 2200/9015** (2013.01 - EP); **F02M 2200/9053** (2013.01 - EP)

Cited by

DE102017206523B4; DE102015218754B4; EP3078843A1; EP3124759A1; US11143059B2; US11149593B2; US10087788B2; US10119607B2; US10385957B2

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 2853699 A1 20150401; **EP 2853699 B1 20160525**; CN 104514655 A 20150415; CN 104514655 B 20190129

DOCDB simple family (application)

EP 13186518 A 20130927; CN 201410510117 A 20140928