

Title (en)

Dampening Element for an Injection Valve

Title (de)

Dämpfungselement für ein Einspritzventil

Title (fr)

Élément d'amortissement pour soupape d'injection

Publication

EP 2469069 A1 20120627 (EN)

Application

EP 10197076 A 20101227

Priority

EP 10197076 A 20101227

Abstract (en)

A dampening element (D) for an injection valve (I) is of a washer-like, substantially annular shape and includes a central longitudinal axis (L) . It further includes a plurality of at least three bumps (1) extending in parallel to said central longitudinal axis (L), which are arranged equidistantly to each other.

IPC 8 full level

F02M 61/14 (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP)

F02M 61/14 (2013.01); **F02M 2200/26** (2013.01)

Citation (applicant)

EP 1262652 A2 20021204 - SIEMENS AG [DE]

Citation (search report)

- [X] DE 102008054591 A1 20100617 - BOSCH GMBH ROBERT [DE]
- [A] US 2010175667 A1 20100715 - CHERN YITZONG [US], et al
- [A] DE 102004049277 A1 20060413 - BOSCH GMBH ROBERT [DE]
- [A] DE 102005057313 A1 20070614 - DAIMLER CHRYSLER AG [DE]
- [A] WO 2010082991 A1 20100722 - ILLINOIS TOOL WORKS [US], et al
- [A] FR 2851791 A1 20040903 - RENAULT SA [FR]
- [A] WO 2005021956 A1 20050310 - BOSCH GMBH ROBERT [DE], et al

Cited by

JP2018062869A; EP3244057A1; US10072623B2; WO2014079609A1

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

Designated extension state (EPC)

BA ME

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