

Title (en)
Control valve device

Title (de)
Steuerventileinrichtung

Title (fr)
Dispositif de vanne de commande

Publication
EP 1970558 A3 20090708 (DE)

Application
EP 08100936 A 20080125

Priority
DE 102007011790 A 20070312

Abstract (en)
[origin: EP1970558A2] The device has a valve needle (20) movably guided back and forth for implementing a valve needle stroke. A stroke stop element (40, 50) limits a squeezing gap (45, 55) and the valve needle stroke. The stroke stop element is movably limited relative to the valve needle, which is limited movably relative to the stroke stop element. A contact surface between the stroke stop element and the valve needle is minimized, where the stroke stop element is prestressed by a stop spring (44, 54). The stop element is guided on the valve needle.

IPC 8 full level
F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/007** (2013.01); **F02M 63/0075** (2013.01)

Citation (search report)

- [X] EP 1256709 A2 20021113 - BOSCH GMBH ROBERT [DE]
- [X] US 2003111625 A1 20030619 - KUEHNE WOLFGANG [DE], et al
- [X] EP 1076766 A1 20010221 - DAIMLER CHRYSLER AG [DE]

Cited by
US10415522B2; WO2017089017A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1970558 A2 20080917; EP 1970558 A3 20090708; EP 1970558 B1 20140813; DE 102007011790 A1 20080918

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EP 08100936 A 20080125; DE 102007011790 A 20070312