

Title (en)  
Throttle valve for internal combustion engines

Title (de)  
Drosselventil für Verbrennungsmotoren

Title (fr)  
Papillon des gaz pour moteurs à combustion interne

Publication  
**EP 2631454 A1 20130828 (EN)**

Application  
**EP 12157157 A 20120227**

Priority  
EP 12157157 A 20120227

Abstract (en)  
A throttle valve (38) may comprise a valve body (60) providing a main gas path, a throttle shaft bearing (72) integrated in the valve body (60), a pivotable throttle shaft (64) mounted to the valve body (60) via the throttle shaft bearing (72), a throttle plate (66) mounted to the throttle shaft (64) and being pivotable within the main gas path by pivoting the throttle shaft (64). The throttle valve may further comprise a channel system (70) integrated into the valve body (60) and configured to guide a high-pressure gas to the throttle shaft (64) for then flowing along the throttle shaft (64) into the main gas path. The throttle valve (38) may be used to control an exhaust gas flow within the exhaust system of an internal combustion engine (10) and allows protecting the throttle shaft bearing (72) from the exhaust gas and its components such as soot.

IPC 8 full level  
**F02D 9/04** (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)  
**F02D 9/04** (2013.01); **F02M 26/67** (2016.02); **F02M 26/70** (2016.02)

Citation (search report)

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- [Y] US 2004006977 A1 20040115 - NAKATANI KOICHIRO [JP], et al
- [XY] DE 102010006023 A1 20110728 - PIERBURG GMBH [DE]
- [Y] EP 0885758 A2 19981223 - BAYERISCHE MOTOREN WERKE AG [DE]
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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

DOCDB simple family (publication)  
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