

Title (en)

Throttle valve unit

Title (de)

Drosselklappeneinheit

Title (fr)

Unité de vanne d'étranglement

Publication

**EP 1359300 A3 20070523 (DE)**

Application

**EP 03007851 A 20030405**

Priority

DE 10219268 A 20020430

Abstract (en)

[origin: DE10219268C1] The throttle flap for a motor vehicle internal combustion engine exhaust duct has a housing (1) with a pivot shaft (5) on which is mounted the throttle flap (6). The shaft is connected to a vacuum chamber (14) with a diaphragm. The flap has an axially operating stop to define its open position, with a fixed stop (18) on a mounting plate engaging a stop (20) mounted on the flap shaft. The shaft also has an axially fixed stop ring (9) and an axially movable stop (11).

IPC 8 full level

**F02D 9/04** (2006.01); **F02D 9/10** (2006.01); **F02D 11/08** (2006.01)

CPC (source: EP)

**F02D 9/04** (2013.01); **F02D 9/1065** (2013.01); **F02D 11/08** (2013.01)

Citation (search report)

- [A] DE 19526143 A1 19970123 - PIERBURG AG [DE]
- [A] DE 19630164 A1 19980129 - SCHMITZ & BRILL GMBH & CO KG [DE]
- [A] DE 10044780 A1 20020404 - WAHLER GMBH & CO KG GUSTAV [DE]
- [A] EP 0851106 A2 19980701 - NIPPON THERMOSTAT KK [JP]

Cited by

US2013192415A1; US8826772B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

Designated extension state (EPC)

AL LT LV MK RO

DOCDB simple family (publication)

**DE 10219268 C1 20030703**; DE 50310181 D1 20080904; EP 1359300 A2 20031105; EP 1359300 A3 20070523; EP 1359300 B1 20080723; ES 2310221 T3 20090101

DOCDB simple family (application)

**DE 10219268 A 20020430**; DE 50310181 T 20030405; EP 03007851 A 20030405; ES 03007851 T 20030405