

Title (en)

Throttle valve unit

Title (de)

Drosselklappeneinheit

Title (fr)

Unité de vanne d'étranglement

Publication

EP 1359300 B1 20080723 (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)

Cited by

US2013192415A1; US8826772B2

Designated contracting state (EPC)

DE ES FR

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