

Title (en)

Silencer provided with exhaust gas control valve

Title (de)

Schalldämpfer mit einem Abgasregelventil

Title (fr)

Silencieux pourvue d'une vanne de régulation de gaz d'échappement

Publication

EP 1867844 A1 20071219 (EN)

Application

EP 06380160 A 20060612

Priority

EP 06380160 A 20060612

Abstract (en)

An exhaust gas control valve (25) varies the exhaust gas flow rate flowing through two different courses (15,16) in an exhaust muffler of the semi-active type (1); the valve is provided with a shutter (39), which slides along a straight axis (28) in a guide seat (27) between a closed position, in which it is adjacent to an axial inlet (29) of the guide seat (27) and closes a valve seat (19), and an open position, in which it is distanced from such axial inlet (29) and leaves the valve seat (19) open; the shutter (39) is subject to the opposite actions defined by the pressure of the exhaust gases and by a spring (40) accommodated within the guide seat (27); the guide seat (27) is defined by a side wall (31) having at least one slot (35), through which the exhaust gases exit when the shutter is in open position.

IPC 8 full level

F01N 1/16 (2006.01)

CPC (source: EP)

F01N 1/166 (2013.01)

Citation (applicant)

- EP 1130226 A2 20010905 - HONDA MOTOR CO LTD [JP]
- DE 10106589 C1 20020801 - GILLET HEINRICH GMBH [DE]
- JP H1113451 B

Citation (search report)

- [XY] DE 10106589 C1 20020801 - GILLET HEINRICH GMBH [DE]
- [YA] US 2004178015 A1 20040916 - WIEMELER DIRK [DE], et al
- [X] US 4161996 A 19790724 - DOLEJSI MIROSLAV [SE]
- [A] DE 19503322 A1 19960808 - GILLET HEINRICH GMBH [DE]

Cited by

CN106414927A; US2017191390A1; US10174655B2; US10443479B2; US10082058B2; WO2017079156A1

Designated contracting state (EPC)

DE ES IT

Designated extension state (EPC)

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