

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)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1867844 A1 20071219; EP 1867844 B1 20100217**; DE 602006012297 D1 20100401; ES 2343133 T3 20100723

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