

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 B1 20100217 (EN)**

Application

**EP 06380160 A 20060612**

Priority

EP 06380160 A 20060612

Abstract (en)

[origin: EP1867844A1] 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 (examination)

- EP 1130226 A2 20010905 - HONDA MOTOR CO LTD [JP]
- JP H1113451 A 19990119 - HITACHI CONSTRUCTION MACHINERY

Cited by

CN106414927A; US2017191390A1; US10174655B2; US10443479B2; US10082058B2; WO2017079156A1

Designated contracting state (EPC)

DE ES IT

DOCDB simple family (publication)

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

DOCDB simple family (application)

**EP 06380160 A 20060612**; DE 602006012297 T 20060612; ES 06380160 T 20060612