

Title (en)

Method and apparatus for controlling engine exhaust sound for vehicles

Title (de)

Verfahren und Gerät zur Steuerung des Motorabgasgeräuschs von Fahrzeugen

Title (fr)

Procédé et appareil pour le contrôle sonore de l'échappement du moteur pour véhicules

Publication

**EP 1978216 A3 20090930 (EN)**

Application

**EP 08005826 A 20080327**

Priority

JP 2007098526 A 20070404

Abstract (en)

[origin: EP1978216A2] An exhaust sound controlling method including reducing a flow rate of exhaust gas that passes through an exhaust path, to a first flow rate in accordance with increase in engine speed in a first engine speed region, and increasing the flow rate of exhaust gas to a second flow rate in accordance with increase in engine speed in a second engine speed region higher in engine speed than the first engine speed region. An exhaust sound controlling apparatus including a baffle plate and a valve that is operated to open a communication passage that communicates upstream and downstream sides of the baffle plate in an engine starting region, close the communication passage in an idling region and a low engine speed region, and open the communication passage and increase an opening of the valve as the engine speed rises in a high engine speed region.

IPC 8 full level

**F01N 1/08** (2006.01); **F01N 1/16** (2006.01); **F01N 13/08** (2010.01)

CPC (source: EP US)

**F01N 1/084** (2013.01 - EP US); **F01N 1/089** (2013.01 - EP US); **F01N 1/166** (2013.01 - EP US); **F01N 1/168** (2013.01 - EP US); **F01N 2470/14** (2013.01 - EP US)

Citation (search report)

- [XY] JP H0598930 A 19930420 - SANGO CO LTD
- [Y] US 2006150620 A1 20060713 - NAGAI TADASHI [JP]
- [A] JP H09250328 A 19970922 - NISSAN MOTOR, et al

Cited by

EP2646660B1; EP2802750B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 1978216 A2 20081008; EP 1978216 A3 20090930**; CN 101280707 A 20081008; JP 2008255879 A 20081023; US 2008245605 A1 20081009

DOCDB simple family (application)

**EP 08005826 A 20080327**; CN 200810089905 A 20080403; JP 2007098526 A 20070404; US 5922608 A 20080331