

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 A2 20081008 (EN)**

Application

**EP 08005826 A 20080327**

Priority

JP 2007098526 A 20070404

Abstract (en)

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 (applicant)

- JP H08109815 A 19960430 - NISSAN MOTOR
- US 5614699 A 19970325 - YASHIRO HARUKI [JP], et al
- US 5739483 A 19980414 - YASHIRO HARUKI [JP], et al
- JP 2007098526 A 20070419 - HITACHI COMP PERIPHERALS CO

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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)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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