

Title (en)

A SILENCER AND A METHOD OF OPERATING A VEHICLE

Title (de)

SCHALLDÄMPFER UND VERFAHREN ZUM BETREIBEN EINES FAHRZEUGS

Title (fr)

SILENCIEUX ET PROCEDE DE MISE EN FONCTIONNEMENT D'UN VEHICULE

Publication

EP 1068430 A2 20010117 (EN)

Application

EP 99911644 A 19990330

Priority

- DK 9900192 W 19990330
- DK 44398 A 19980330

Abstract (en)

[origin: WO9950539A2] A device (a silencer) for silencing a flow, comprises at least one acoustic chamber through-flowed by gas, e.g., exhaust gas, at least one inlet pipe and at least one pipe or passage interconnecting two chambers or a chamber and an exterior environment or chamber and is designed with such cross-sectional area transitions between passages and the chambers that sound attenuation achieved by the device is high while the pressure drop across the silencer is low and that high attenuation at low characteristic frequencies of flow systems comprising the device are obtained. One or more diffusers and/or monolithic bodies or catalysts may be comprised in the device. The passages may be curved or helical so as to allow for a low natural frequency. Embodiments with resonance chambers attenuating at selected frequencies are disclosed. A method for operating a vehicle comprising a combustion engine and a silencing system is disclosed. The engine may be a spark ignited combustion engine or a gas turbine engine, and the method may comprise controlling fuel injection, excess air ration and/or spark timing or adjusting vane guides in a turbine or a turbo charger.

IPC 1-7

F01N 1/08; **F02P 5/153**

IPC 8 full level

F01N 1/08 (2006.01); **F01N 1/10** (2006.01); **F01N 1/12** (2006.01); **F01N 3/28** (2006.01); **F02P 5/153** (2006.01)

CPC (source: EP)

F01N 1/08 (2013.01); **F01N 1/085** (2013.01); **F01N 1/089** (2013.01); **F01N 1/10** (2013.01); **F01N 1/125** (2013.01); **F01N 3/2882** (2013.01); **F02D 41/1448** (2013.01); **F02P 5/153** (2013.01); **F01N 2210/04** (2013.01); **F01N 2230/04** (2013.01); **F01N 2470/18** (2013.01); **F01N 2470/22** (2013.01); **Y02A 50/20** (2017.12); **Y02T 10/12** (2013.01); **Y02T 10/40** (2013.01)

Citation (search report)

See references of WO 9950539A2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

WO 9950539 A2 19991007; **WO 9950539 A3 19991118**; AU 3025999 A 19991018; CA 2373774 A1 19991007; EP 1068430 A2 20010117; EP 1445453 A2 20040811; EP 1445453 A3 20041124

DOCDB simple family (application)

DK 9900192 W 19990330; AU 3025999 A 19990330; CA 2373774 A 19990330; EP 03020505 A 19990330; EP 99911644 A 19990330