

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

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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.

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CPC (source: EP)

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