

Title (en)

Active sound attenuation system for a vehicle

Title (de)

Aktives Schallabsorptionssystem für ein Kraftfahrzeug

Title (fr)

Dispositif actif d'atténuation acoustique pour un véhicule

Publication

EP 0774749 B1 20031008 (DE)

Application

EP 96116233 A 19961010

Priority

DE 19543128 A 19951118

Abstract (en)

[origin: EP0774749A2] The system uses a sound pressure sensor or microphone which is connected with a regulator and a loudspeaker. In the regulating circuit, the input is the sound pressure of the interference inside the motor vehicle (Pst r). The feedback is the sound pressure from the active sound absorption system (Pactives system). The difference between the input and the feedback, is the actual pressure inside the motor vehicle (Pges). This is then fed to three series connected filters. The first filter (HMik) represents the transfer function of the microphone and the second filter (HRegler) represents the transfer function of the regulator. The third filter represents (HLS) the transfer function of the loudspeaker. The second filter gives an output signal (ULS) to the loudspeaker, deflecting the membrane by the amount (xLS), used as feedback with the transfer function (HLS-Mik) to form the sound pressure from the active sound absorption system (Pactive system).

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G10K 11/178

IPC 8 full level

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CPC (source: EP US)

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