

Title (en)

Acoustic transducer for exhaust gas pulsations

Title (de)

Schallwandler für Abgaspulsationen

Title (fr)

Transducteur acoustique pour les pulsations de gaz d'échappement

Publication

EP 1138887 A3 20020619 (DE)

Application

EP 01108092 A 20010329

Priority

DE 10015697 A 20000329

Abstract (en)

[origin: EP1138887A2] The device has a branch member (11,11') connected to the exhaust system (2) of an IC engine, to branch-off exhaust pulsation. It also has a modulator head (15) to radiate airborne sound into the engine space, dependent upon exhaust pulsation. The head is formed as a resonance body, and pref. consists of a support frame and a membrane tensioned in it. It is at least partially placed inside the engine chamber and/or the vehicle interior.

IPC 1-7

B60Q 5/00; **G10K 9/02**; **F01N 7/00**

IPC 8 full level

A61P 31/12 (2006.01); **B60Q 5/00** (2006.01); **C12M 1/16** (2006.01); **F01N 7/00** (2006.01); **G10K 11/22** (2006.01)

CPC (source: EP)

F01N 1/065 (2013.01); **G10K 11/22** (2013.01)

Citation (search report)

- [XY] FR 642008 A 19280817
- [A] DE 4435296 A1 19960404 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] WO 0004532 A1 20000127 - TUEV AUTOMOTIVE GMBH UNTERNEHM [DE], et al
- [A] DE 4233252 C1 19931216 - BAYERISCHE MOTOREN WERKE AG [DE]
- [YA] PATENT ABSTRACTS OF JAPAN vol. 014, no. 575 (M - 1062) 20 December 1990 (1990-12-20)

Cited by

EP1816022A1; CN102840023A; ES2405729R1; GB2556046A; GB2556046B; DE102005006914B4; US2023039045A1; EP3156300A1; US11028743B2; US6848410B2; US7487857B2; DE102012109668A1; US9682652B2; DE102017222144A1; WO02077969A1; WO03101780A1

Designated contracting state (EPC)

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DOCDB simple family (application)

EP 01108092 A 20010329; DE 10015697 A 20000329; DE 50100695 T 20010329