

Title (en)

Method and device for attenuation of the intake noise of an internal combustion engine

Title (de)

Verfahren und Vorrichtung zur Dämpfung des Ansaugeräusches eines Verbrennungsmotors

Title (fr)

Procédé et dispositif d'atténuation des bruits de bouche d'un moteur thermique

Publication

EP 2172640 B1 20130109 (FR)

Application

EP 09170788 A 20090921

Priority

FR 0856678 A 20081002

Abstract (en)

[origin: EP2172640A1] The method involves determining acoustic modes of noise generated by a heat engine e.g. diesel engine, of a vehicle i.e. car, and choosing physical characteristics i.e. stiffness, of a flexible membrane (50) based on the acoustic modes of the noise. The flexible membrane is fixed in an air intake circuit of the heat engine such that the flexible membrane is subjected to large non-linear deformation under the action of the acoustic modes of the noise. An independent claim is also included for a device for attenuating noise that is generated by a heat engine and is propagated in an air intake circuit of the engine, comprising a flexible membrane.

IPC 8 full level

F02M 35/12 (2006.01); **F02M 35/14** (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP)

F02M 35/1222 (2013.01); **F02M 35/1261** (2013.01); **F02M 35/14** (2013.01)

Cited by

FR3023645A1; DE102015103936A1; DE102014009212A1; WO2016005489A3; US10522128B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2172640 A1 20100407; **EP 2172640 B1 20130109**; FR 2936843 A1 20100409; FR 2936843 B1 20110902

DOCDB simple family (application)

EP 09170788 A 20090921; FR 0856678 A 20081002