

Title (en)

Active silencer for an exhaust system

Title (de)

Aktiver Schalldämpfer für eine Abgasanlage

Title (fr)

Atténuateur actif de bruit pour un système d'échappement

Publication

EP 1832725 A3 20090325 (DE)

Application

EP 07102847 A 20070222

Priority

DE 102006010558 A 20060306

Abstract (en)

[origin: EP1832725A2] The muffler (1) has spaces (3, 4) which are separated via a partition (5) in an airtight manner, where an airborne sound transported in an exhaust system (2) enters the space (3) to cause an unpleasant noise burden. An electronic sound absorber (7) e.g. loudspeaker, having a chassis (8) and a diaphragm (9) is inserted into a wall opening (6) of the partition. The sound absorber situated in the space (4) acts upon the space (3) with anti-sound through the wall opening during operation. The chassis of the sound absorber and the partition are made in one piece.

IPC 8 full level

F01N 1/06 (2006.01); **F01N 13/18** (2010.01); **G10K 11/178** (2006.01)

CPC (source: EP US)

F01N 1/065 (2013.01 - EP US); **G10K 11/1785** (2017.12 - EP US); **G10K 11/1787** (2017.12 - EP US); **G10K 2210/12822** (2013.01 - EP US); **G10K 2210/3212** (2013.01 - EP US)

Citation (search report)

- [X] EP 0939577 A2 19990901 - TENNECO AUTOMOTIVE INC [US]
- [X] US 5693918 A 19971202 - BREMIGAN CARY D [US], et al
- [A] DE 4317403 A1 19941201 - NOKIA DEUTSCHLAND GMBH [DE]

Cited by

US9728176B2; EP2915967B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1832725 A2 20070912; **EP 1832725 A3 20090325**; **EP 1832725 B1 20111214**; CN 101033702 A 20070912; CN 101033702 B 20130227; DE 102006010558 A1 20070913; JP 2007239746 A 20070920; US 2007205043 A1 20070906

DOCDB simple family (application)

EP 07102847 A 20070222; CN 200710005639 A 20070306; DE 102006010558 A 20060306; JP 2007055001 A 20070306; US 68079807 A 20070301