

Title (en)
Improvements in or Relating to Vehicle Noise

Title (de)
Verbesserungen bei oder im Zusammenhang mit Fahrzeuggeräuschen

Title (fr)
Améliorations du bruit d'un véhicule ou liées à celui-ci

Publication
EP 1865187 A3 20081224 (EN)

Application
EP 07109532 A 20070604

Priority
JP 2006155945 A 20060605

Abstract (en)
[origin: EP1865187A2] A device (1) for amplifying the suction noise of a vehicle is disclosed. The device (1) comprises an intake duct (10), a connecting pipe (12) and a composite membrane (16). The intake duct (10) is for feeding air to an engine intake port. A connecting pipe (12) is connected to an interior of the intake duct (10). The composite membrane (16) is positioned within the connecting pipe (12). The composite member (16) blocks an interior passage formed in the connecting pipe (12). The composite member (16) further includes at least two elastic membranes with one of masses and rigidities that different from each other. A method is also disclosed.

IPC 8 full level
F02M 35/12 (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP US)
F02M 35/10295 (2013.01 - EP US); **F02M 35/10301** (2013.01 - EP US); **F02M 35/10321** (2013.01 - EP US); **F02M 35/112** (2013.01 - EP US); **F02M 35/1272** (2013.01 - EP US); **F02M 35/1294** (2013.01 - EP US); **F02M 35/161** (2013.01 - EP US)

Citation (search report)

- [X] EP 1111228 A2 20010627 - MAHLE FILTERSYSTEME GMBH [DE]
- [A] WO 2005045225 A1 20050519 - MAHLE TENNEX CORP [JP], et al
- [E] EP 1808594 A1 20070718 - DENSO CORP [JP]
- [AP] EP 1772614 A2 20070411 - NISSAN MOTOR [JP]
- [A] EP 0704617 A1 19960403 - GEN MOTORS CORP [US] & DE 112004002158 T5 20061102 - MAHLE FILTER SYSTEMS JP CORP [JP]

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1865187 A2 20071212; **EP 1865187 A3 20081224**; **EP 1865187 B1 20101208**; CN 101086240 A 20071212; CN 101086240 B 20100609; DE 602007011001 D1 20110120; JP 2007321724 A 20071213; JP 4661695 B2 20110330; US RE42490 E 20110628

DOCDB simple family (application)
EP 07109532 A 20070604; CN 200710110579 A 20070605; DE 602007011001 T 20070604; JP 2006155945 A 20060605; US 91193810 A 20101026