

Title (en)
Active exhaust silencer

Title (de)
Aktiver Abgasschalldämpfer

Title (fr)
Silencieux d'échappement actif

Publication
EP 1627996 A1 20060222 (DE)

Application
EP 05106117 A 20050706

Priority
DE 102004040421 A 20040819

Abstract (en)
The exhaust gas silencer (1) for the exhaust system (3) of the engine has a housing (2) with the tube system (8) through it, containing three cavities (9, 12, 17). The third cavity (17) contains a labyrinth (21) which blocks of the direct path (22) for the propagation of air noise between the noise outlet (20) and of wall aperture (18) in the dividing wall (16) between the second and third cavities.

IPC 8 full level
F01N 1/06 (2006.01); **F01N 1/08** (2006.01); **F01N 13/14** (2010.01)

CPC (source: EP US)
F01N 1/006 (2013.01 - EP US); **F01N 1/023** (2013.01 - EP US); **F01N 1/065** (2013.01 - EP US); **F01N 1/083** (2013.01 - EP US);
F01N 2490/02 (2013.01 - EP US)

Citation (search report)
• [AD] US 5600106 A 19970204 - LANGLEY ANDREW J [GB]
• [A] EP 1055804 A1 20001129 - LEISTRITZ ABGASTECH [DE]
• [A] US 5457749 A 19951010 - CAIN JOHN A [US], et al
• [A] US 5693918 A 19971202 - BREMIGAN CARY D [US], et al
• [A] WO 0210560 A1 20020207 - FAURECIA SYS ECHAPPEMENT [FR], et al
• [A] US 5930371 A 19990727 - CHENG C RAYMOND [US], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 688 (P - 1662) 16 December 1993 (1993-12-16)

Cited by
DE102013011937B3; EP2444605A1; CN106523105A; EP2607639A3; DE102009049280A1; EP2826966A1; US9066168B2; DE102013104307A1; EP3165729A1; DE102015119191A1; US9997152B2; EP2915967A1; US9728176B2; EP2530263A1; EP2600342A2; DE102012023643A1; DE202012012724U1; US9386366B2; EP2108791A1; DE102008018085A1; US7891463B2; EP2818654A1; DE102013010609A1; US9706295B2; DE102013010609B4; US8434590B2; EP2797075A2; EP2801708A1; DE102013104810A1; US9374632B2; EP2915967B1; EP2543835A1; DE102011106647A1; EP2590163A2; DE102011117495A1; EP2723099A1; DE102012109872A1; US8930071B2; US9084039B2; US9591387B2

Designated contracting state (EPC)
DE FR IT SE

DOCDB simple family (publication)
EP 1627996 A1 20060222; **EP 1627996 B1 20070411**; DE 102004040421 A1 20060309; DE 502005000575 D1 20070524;
JP 2006057629 A 20060302; JP 4589189 B2 20101201; US 2006037808 A1 20060223; US 7293627 B2 20071113

DOCDB simple family (application)
EP 05106117 A 20050706; DE 102004040421 A 20040819; DE 502005000575 T 20050706; JP 2005214335 A 20050725;
US 20575305 A 20050817