

Title (en)
Exhaust silencer

Title (de)
Abgasschalldämpfer

Title (fr)
Silencieux d'échappement

Publication
EP 1507071 B2 20191016 (DE)

Application
EP 04019054 A 20040811

Priority
• DE 10337110 A 20030811
• DE 10337111 A 20030811

Abstract (en)
[origin: EP1507071A1] The internal combustion engine silencer consists of a straight-through pipe (1) surrounded by an outer housing (2). The housing has flat end plates (3,4) and an e.g. circular-section mantle (5) joining the end plates. The pipe carrying the exhaust gas has micro-perforations (9) in its mid-portion (8) between the inlet (6) and outlet (7) portions. There are perforated tubes (12,13) in the annular space (10) between the pipe and the mantle acting as damping chambers.

IPC 8 full level
F01N 1/00 (2006.01); **F01N 1/08** (2006.01); **G10K 11/16** (2006.01)

CPC (source: EP)
F01N 1/003 (2013.01); **F01N 1/08** (2013.01); **F01N 1/082** (2013.01); **F01N 1/083** (2013.01); **G10K 11/161** (2013.01); **F01N 2470/02** (2013.01); **F01N 2470/04** (2013.01)

Cited by
US2023003479A1; CN106715849A; DE102006020155A1; CN110847980A; DE102005054397C5; GB2485881A; EP3467276A1; US9970340B2; US10907517B2; US10352210B2; WO2017012839A1; WO2016040431A1; US8511427B2

Designated contracting state (EPC)
DE ES FR

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EP 1507071 A1 20050216; **EP 1507071 B1 20160713**; **EP 1507071 B2 20191016**; **EP 1507071 B8 20160921**; EP 2851526 A1 20150325; EP 2851526 B1 20180523

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