

Title (en)
Engine exhaust apparatus

Title (de)
Abgasanlage für Brennkraftmaschinen

Title (fr)
Système d'échappement pour moteurs à combustion interne

Publication
EP 1798390 A3 20070704 (DE)

Application
EP 06022147 A 20061023

Priority
• DE 102005060053 A 20051215
• DE 102006020155 A 20060502

Abstract (en)
[origin: EP1798390A2] An exhaust silencer, especially for a turbo charged IC engine, has a small volume straight through chamber linked to a larger volume expansion chamber. The silencer has inlet and outlet (4, 5) ports and comprises a perforated tube linked to cross tubes which connect to an array of expansion chambers whose size and layout provides enhanced damping in the lower engine speeds. The design is optimized to provide progressive increase in sound with engine speed.

IPC 8 full level
F01N 1/00 (2006.01); **F01N 1/02** (2006.01); **F01N 13/18** (2010.01)

CPC (source: EP)
F01N 1/003 (2013.01); **F01N 1/006** (2013.01); **F01N 1/02** (2013.01); **F01N 13/1888** (2013.01)

Citation (search report)
• [XY] US 4501341 A 19850226 - JONES ADRIAN D [AU]
• [Y] JP H0412145 A 19920116 - MAZDA MOTOR
• [X] JP S58148215 A 19830903 - NISSAN MOTOR
• [X] US 2139151 A 19381206 - DEREMER FLOYD E
• [XP] EP 1686246 A2 20060802 - PORSCHE AG [DE]
• [A] US 3500954 A 19700317 - WILLETTE EARL G

Cited by
US2011000186A1; US8418445B2; DE102016106340A1; EP1798390B2

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 YU

DOCDB simple family (publication)
EP 1798390 A2 20070620; EP 1798390 A3 20070704; EP 1798390 B1 20091230; EP 1798390 B2 20141112; AT E453784 T1 20100115;
DE 102006020155 A1 20070621; DE 502006005775 D1 20100211; ES 2335794 T3 20100405

DOCDB simple family (application)
EP 06022147 A 20061023; AT 06022147 T 20061023; DE 102006020155 A 20060502; DE 502006005775 T 20061023;
ES 06022147 T 20061023