

Title (en)
Insert for silencer

Title (de)
Schalldämpfereinsatz

Title (fr)
Pièce d'insertion pour silencieux

Publication
EP 1099829 A3 20031015 (DE)

Application
EP 00124521 A 20001109

Priority
DE 29919767 U 19991111

Abstract (en)
[origin: EP1099829A2] The inlet (6) of the silencer (1) has a tapered reducing piece (4,5) leading into the perforated tube (2). The concentric space (8) between the inner and outer tubes acts as an expansion chamber. Some of the exhaust gases flow through the perforations and are released to the outside through vanes (17) at the outlet (19) end of the silencer. There may be a large-diameter pipe surrounding these vanes. The vanes are made by bending the edges of discs (14) which have openings (11,18) in them to allow exhaust gases to flow through.

IPC 1-7
F01N 1/08; **F01N 7/08**; **F01N 1/10**; **F01N 1/02**

IPC 8 full level
F01N 1/02 (2006.01); **F01N 1/06** (2006.01); **F01N 1/08** (2006.01); **F01N 1/10** (2006.01); **F01N 1/16** (2006.01); **F01N 1/24** (2006.01);
F01N 13/08 (2010.01); **F01N 1/00** (2006.01)

CPC (source: EP)
F01N 1/006 (2013.01); **F01N 1/02** (2013.01); **F01N 1/023** (2013.01); **F01N 1/06** (2013.01); **F01N 1/08** (2013.01); **F01N 1/083** (2013.01);
F01N 1/084 (2013.01); **F01N 1/085** (2013.01); **F01N 1/10** (2013.01); **F01N 1/165** (2013.01); **F01N 1/166** (2013.01); **F01N 1/24** (2013.01);
F01N 13/082 (2013.01); **F01N 2490/155** (2013.01); **F01N 2490/20** (2013.01)

Citation (search report)
• [XY] US 3545565 A 19701208 - MCCAFFREY HORACE JR
• [XY] US 3710891 A 19730116 - FLUGGER R
• [XY] US 4550799 A 19851105 - FLUGGER RAY T [US]
• [X] EP 0084598 A1 19830803 - KNORR BREMSE GMBH [DE]
• [A] GB 146837 A 19210526 - HUGO SCHNEEBELI
• [Y] DE 19806219 A1 19990819 - CCD CLASSIC CYCLES [DE]
• [A] US 4751980 A 19880621 - DEVANE HARRY M [US]
• [A] US 5767459 A 19980616 - SELL LESLIE J [US]

Cited by
US10961895B2; US7484591B2; DE202021003282U1; DE202021003793U1; DE102009036559A1; DE202022000300U1; DE202022000229U1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1099829 A2 20010516; **EP 1099829 A3 20031015**; **EP 1099829 B1 20060125**; AT E316606 T1 20060215; DE 10055535 A1 20010517;
DE 29919767 U1 20000706; DE 50012121 D1 20060413; ES 2255937 T3 20060716

DOCDB simple family (application)
EP 00124521 A 20001109; AT 00124521 T 20001109; DE 10055535 A 20001109; DE 29919767 U 19991111; DE 50012121 T 20001109;
ES 00124521 T 20001109