

Title (en)  
EXHAUST SILENCER, ESPECIALLY FOR A TWO-STROKE ENGINE WITH CATALYTIC CONVERTER

Publication  
**EP 0455623 B1 19930331 (DE)**

Application  
**EP 91890080 A 19910417**

Priority  
AT 98590 A 19900430

Abstract (en)  
[origin: JPH04228817A] PURPOSE: To improve the sound damping while lowering the surface temperature of an exhaust gas muffler.  
CONSTITUTION: The housing 1 of an exhaust gas muffler has an inlet 2 and outlet 3 and is divided to plural chambers I to III by the partition 4 with a connection pipe 5. The exhaust gas flows through this housing 1 while turning over its direction plural times. The outlet 3 is composed of a perforated inner tube 6 surrounded by the outer tube 7 spaced therefrom and the housing 1 has a double wall with a heat resistant intermediate layer 10. A tube resonator 8 is continued to a perforated resonator formed by the perforated inner tube 6 and outer tube 7. Further, the inner wall 9 of the housing wall is a wave shape and the inner wall 9 of a solid propagated sound damping intermediate layer 10 is fixed to the outer wall.

IPC 1-7  
**F01N 1/02**; **F01N 1/08**; **F01N 7/14**

IPC 8 full level  
**F01N 1/02** (2006.01); **F01N 1/08** (2006.01); **F01N 13/14** (2010.01); **F01N 13/18** (2010.01)

CPC (source: EP US)  
**F01N 1/02** (2013.01 - EP US); **F01N 1/084** (2013.01 - EP US); **F01N 13/14** (2013.01 - EP US); **F01N 2490/155** (2013.01 - EP US)

Cited by  
US9449592B2

Designated contracting state (EPC)  
CH DE ES FR GB IT LI SE

DOCDB simple family (publication)  
**EP 0455623 A1 19911106**; **EP 0455623 B1 19930331**; DE 59100068 D1 19930506; ES 2040152 T3 19931001; JP H04228817 A 19920818; US 5168132 A 19921201

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