

Title (en)
Silencer with resonator

Title (de)
Resonatorschalldämpfer

Title (fr)
Silencieux à résonateur

Publication
EP 1400662 B1 20070808 (DE)

Application
EP 03103301 A 20030905

Priority
DE 10243884 A 20020921

Abstract (en)
[origin: EP1400662A1] The silencer consists of a sleeve (11) inserted in the exhaust pipe that has an integral Helmholtz resonator. This has a number of chambers (13) coupled by tapered orifices (12). The greater the included angle of the taper the thinner the wall section (s) of the sleeve tube for a required resonance frequency.

IPC 8 full level
F01N 1/02 (2006.01); **F02M 35/12** (2006.01); **F02B 37/00** (2006.01)

CPC (source: EP)
F01N 1/02 (2013.01); **F01N 1/023** (2013.01); **F02M 35/1216** (2013.01); **F02M 35/1261** (2013.01); **F02M 35/1266** (2013.01); **F01N 2450/18** (2013.01); **F01N 2450/22** (2013.01); **F01N 2450/28** (2013.01); **F01N 2450/40** (2013.01); **F01N 2470/04** (2013.01); **F01N 2470/24** (2013.01); **F01N 2490/155** (2013.01); **F01N 2530/00** (2013.01); **F01N 2530/18** (2013.01); **F02B 37/00** (2013.01)

Cited by
DE102010020064A1; DE102010020064B4; CN107407484A; EP2534343A4; WO2016061604A1; US10712004B2; US11808187B2; EP2757235A1

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