

Title (en)
DEVICE FOR REDUCING THE NOISE OF EXHAUST OR OF WASTE GAS

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Application
EP 80106431 A 19801022

Priority
DE 2947256 A 19791123

Abstract (en)
[origin: US4325458A] The noise of an exhaust gas flow of an internal combustion engine or other thermodynamic equipment is reduced by silators which are operatively arranged for deadening or absorbing the exhaust noise. Such silators have vaulted surfaces enclosing an evacuated volume which may include a cooling liquid. The silators have a resonance frequency that depends on the vaulting height and the free span or diameter of the vaulted surface. By properly dimensioning the silators and combining a plurality thereof each having a different resonance frequency, a wide frequency range of exhaust noises may be covered. Preferably the silator impedance is smaller than the air impedance of the environment. The silators are protected against the heat of the exhaust gases.

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