Title (en)

REACTIVE SILENCER OR SOUND ATTENUATOR FOR A PULSATING GAS FLOW

Publication

EP 0072274 B1 19850502 (FR)

Application

EP 82401322 A 19820713

Priority

FR 8114685 A 19810723

Abstract (en)

[origin: EP0072274A1] 1. A reactive sound attenuator or silencer, i.e. a reflection or sound wave echo attenuator or silencer, for a pulsed flow-rate of gas submitted to mean and high frequencies, namely of about 300 to 8000 Hz, characterized by a system of several identical sets (1, 2, 3, 4, 5, 6, 7, 8) disposed in parallel, connected with at least an inlet collector (34) and/or an exhaust collector (35), each of the sets being composed of a succession of expansion rooms (1, 2, 3) of different dimensions connected by an axial duct (4, 5, 6), each of the rooms having such dimensions that it is accorded for a field of frequency to be attenuated, whereas the joining ducts (4, 5, 6) have a weak cross-section with respect to the one of the rooms, the system of several sets of rooms (1, 2, 3) connected with ducts (4, 5, 6) being carried out in order that the lenghts of the rooms and ducts are determined so that it can be provided an alveolar imbrication of the elements which are staggered the one with respect to the other in order that the rooms reach the level with the ducts of the adjacent sets and inversely, so as to circumscribe said system in the minimal volume.

IPC 1-7

F01N 7/18; F01N 1/08

IPC 8 full level

F01N 1/08 (2006.01); **F01N 7/18** (2006.01); **F01N 13/18** (2010.01); F01N 7/02 (2006.01); F01N 13/02 (2010.01)

CPC (source: EP)

F01N 1/089 (2013.01); **F01N 13/009** (2014.06); **F01N 13/1844** (2013.01); **F01N 13/1888** (2013.01); F01N 2450/24 (2013.01); F01N 2470/10 (2013.01); F01N 2470/30 (2013.01)

Cited by

KR100436620B1; US6530452B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0072274 A1 19830216; **EP 0072274 B1 19850502**; AT E13082 T1 19850515; DE 3263390 D1 19850605; FR 2510184 A1 19830128; FR 2510184 B1 19850419

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