

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 lengths 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
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CPC (source: EP)
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Cited by
KR100436620B1; US6530452B1

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