

Title (en)
VARIABLE RESONATORS FOR NOISE ATTENUATION

Publication
EP 0029898 B1 19850508 (DE)

Application
EP 80106229 A 19801014

Priority
DE 2947026 A 19791122

Abstract (en)
[origin: US4325461A] A noise reducing resonator, herein referred to as a silator due to its noise silencing quality, is made up of primary struts forming a main frame and secondary struts forming at least one subframe enclosed by a vacuum tight cover to enclose a vaulting evacuated volume. Each frame has a given span width and a vaulting height corresponding to 0.005 to 0.05 times the respective span width. The frames are arranged in a hierarchic order which means that a larger main frame holds a smaller subframe which in turn holds a still smaller subframe and so on. The resonance frequency increases with the number of subframes held in a main frame. Interconnected silators may cover entire surface areas for noise reduction or absorption.

IPC 1-7
G10K 11/16

IPC 8 full level
G10K 11/16 (2006.01); **G10K 11/172** (2006.01)

CPC (source: EP US)
G10K 11/172 (2013.01 - EP US)

Citation (examination)

- DE 2758041 A1 19790628 - FRAUNHOFER GES FORSCHUNG
- DE 2650462 A1 19780511 - WENDT HEINZ
- DE 2739075 A1 19780316 - SAURER AG ADOLPH
- FR 2358721 A1 19780210 - MESSERSCHMITT BOELKOW BLOHM [DE]

Cited by
CN102951795A

Designated contracting state (EPC)
AT CH FR GB IT LI NL

DOCDB simple family (publication)
US 4325461 A 19820420; AT E13232 T1 19850515; DE 2947026 B1 19801127; DE 2947026 C2 19811001; EP 0029898 A2 19810610; EP 0029898 A3 19810826; EP 0029898 B1 19850508

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