

ABSTRACT

Low thickness perforated mille-feuille acoustic resonator for absorbing or radiating very low acoustic frequencies

The invention relates to an acoustic resonator comprising a resonance part (1) provided with a main perforation (2) extending in a direction of propagation (21) and a series of lateral cavities (3) communicating with the
5 main perforation (2) so as to form very thin acoustic resonators, each lateral cavity (3a, 3b, 3c, etc.) opening onto the main perforation (2) via the entire perimeter of a respective segment of this main perforation (2), and the lateral cavities (3) constituting fluid laminae such that the resonance part (1) presents a multilayer structure comprising these fluid
10 laminae and layers of a material of the resonance part (1) separating these fluid laminae.

See Figure 1