

Title (en)

WALLS OR PARTITIONS HAVING ADJUSTABLE ACOUSTIC ABSORPTION AND/OR INSULATION PROPERTIES

Title (de)

HÜLLE ODER WÄNDE MIT VERÄNDERBAREN SCHALLDÄMMUNGS- UND/ODER SCHALLABSORPTIONSEIGENSCHAFTEN

Title (fr)

ENVELOPPES OU PAROIS PRESENTANT DES PROPRIETES AJUSTABLES D'ISOLEMENT ET/OU D'ABSORPTION ACOUSTIQUE

Publication

EP 1374220 A1 20040102 (FR)

Application

EP 02719573 A 20020325

Priority

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- BE 0200044 W 20020325
- EP 01870065 A 20010327

Abstract (en)

[origin: EP1246162A1] Acoustic insulating container or partition which consists of a basic low-density medium, e.g. a gas such as air, hydrogen or nitrogen, containing a periodic repetition in two dimensions of a base cell with at least one angular geometric motif. <??>Acoustic insulating container or partition which consists of a basic low-density medium, e.g. a gas such as air, hydrogen or nitrogen, containing a periodic repetition in two dimensions of a base cell with at least one angular geometric motif. The motif has at least two sides forming a structure of juxtaposed materials with strongly contrasting acoustic impedances, i.e. densities and/or wave propagation velocities. The angular motifs can have a right-angled cross-section with sides of the same or different lengths, a cross-section in the shape of an H, I, U or C, or solid or hollow tubes or bars, and the spaces between the motifs can be wholly or partly filled with a preferably porous acoustically absorbent material that replaces the basic medium. The motifs are of high density, made from metals or alloys such as iron, steel, aluminum, mercury and lead, or glass, concrete, plaster, ceramic, minerals, polymers or wood, or from tubes filled with a liquid such as water, oil or a gel.

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IPC 8 full level

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