

Title (en)  
Acoustical building structure

Title (de)  
Akustische Gebäudestruktur

Title (fr)  
Structure acoustique de bâtiment

Publication  
**EP 0921242 A2 19990609 (FR)**

Application  
**EP 98402947 A 19981126**

Priority  
• FR 9715175 A 19971202  
• FR 9802678 A 19980305

Abstract (en)  
The structure, designed to adhere to the principle of mass-spring-mass, has each of the masses in the form of a rigid U-section panel (1,2) covered on the inside by a layer of mineral wool (3) and fixed mechanically to components (6,7) of the building, e.g. on either side of framework components. The acoustic attenuation index of the structure is over 50 dB(A), and preferably over 60 dB(A). At least one of the panels is of solid and another of perforated metal sheet, and the panel ends are designed to be fitted together to form flush surfaces (10,11). In addition, they are fastened to the building components by plain or acoustic spacers (12).

Abstract (fr)  
L'invention concerne une structure acoustique de bâtiment répondant au principe d'isolation masse-ressort-masse, les deux masses du système masse-ressort-masse comprenant chacune au moins un élément rigide (1,2) et étant séparées par au moins un panneau de laine minérale (3,4) associé à au moins une lame d'air (5). La structure acoustique est telle que les éléments rigides (1,2) sont des plateaux à section en U et sont garnis à l'intérieur du U d'au moins une laine minérale (3,4). <IMAGE>

IPC 1-7  
**E04B 1/82**

IPC 8 full level  
**E04B 1/74** (2006.01); **E04B 1/86** (2006.01); **E04B 1/82** (2006.01); **E04B 2/74** (2006.01); **E04C 2/292** (2006.01)

CPC (source: EP US)  
**E04B 1/82** (2013.01 - EP US); **E04B 2/7453** (2013.01 - EP US); **E04B 2/7409** (2013.01 - EP US)

Cited by  
FR2798945A1; EP1522643A1; RU176345U1; ES2186449A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0921242 A2 19990609; EP 0921242 A3 20000329; EP 0921242 B1 20040825**; AR 017781 A1 20011024; AT E274623 T1 20040915; BR 9804981 A 19991109; CA 2255400 A1 19990602; CA 2255400 C 20070410; CZ 294490 B6 20050112; CZ 394298 A3 19990616; DE 69825846 D1 20040930; DE 69825846 T2 20050901; DK 0921242 T3 20050103; ES 2227788 T3 20050401; HU 220923 B1 20020629; HU 9802785 D0 19990128; HU P9802785 A1 19990928; JP 4184512 B2 20081119; JP H11229518 A 19990824; NO 320372 B1 20051128; NO 985549 D0 19981127; NO 985549 L 19990603; PL 198033 B1 20080530; PL 330030 A1 19990607; PT 921242 E 20050131; RU 2222673 C2 20040127; TR 199802497 A2 20000421; TR 199802497 A3 20000421; US 6122867 A 20000926

DOCDB simple family (application)  
**EP 98402947 A 19981126**; AR P980106100 A 19981202; AT 98402947 T 19981126; BR 9804981 A 19981201; CA 2255400 A 19981201; CZ 394298 A 19981202; DE 69825846 T 19981126; DK 98402947 T 19981126; ES 98402947 T 19981126; HU P9802785 A 19981201; JP 34294998 A 19981202; NO 985549 A 19981127; PL 33003098 A 19981202; PT 98402947 T 19981126; RU 98121683 A 19981201; TR 9802497 A 19981130; US 20373698 A 19981202