

Title (en)

Metal composite sound absorbent structural panel

Title (de)

Schalldämpfendes Metallverbundstoff-Strukturpaneel

Title (fr)

Panneau structurel absorbant les sons en composite métallique

Publication

**EP 2434067 A3 20140910 (EN)**

Application

**EP 11182174 A 20110921**

Priority

IT MI20100293 U 20100922

Abstract (en)

[origin: EP2434067A2] A metal composite sound absorbent structural panel, characterized in that said panel has a high flexural thickness and comprises two flat plates coupled by glueing a fret element, made of aluminium, steel or other metals or alloys and comprising a first and second plate elements adapted to be coupled to one another thereby being substantially parallel, through an interposition of a corrugated coupling element comprising a fretted element; on one or both said plate elements being formed a double hole series: a series of vertical holes and a series of horizontal holes; the hole pattern geometry of one of said plate elements or both said plate elements, independent from one another, being made based on a Hemholtz resonance principle.

IPC 8 full level

**E04B 1/86** (2006.01)

CPC (source: EP)

**E04B 1/86** (2013.01); **E04C 2/08** (2013.01); **E04C 2/3405** (2013.01); **G10K 11/172** (2013.01); **E04B 2001/8433** (2013.01); **E04C 2002/3455** (2013.01)

Citation (search report)

- [Y] EP 1098294 A2 20010509 - CWW GERKO AKUSTIK GMBH & CO KG [DE], et al
- [Y] DE 1264021 B 19680321 - GRUENZWEIG & HARTMANN
- [A] GB 1373063 A 19741106 - DASSAULT AVIONS
- [A] GB 822954 A 19591104 - GOMMA ANTIVIBRANTI APPLIC

Cited by

NL2016206B1; CN105863186A; CN105863184A; CN106638344A; CN105971205A; CN114541605A; WO2017108718A1; JP2017218754A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2434067 A2 20120328; EP 2434067 A3 20140910; IT MI20100293 U1 20120323**

DOCDB simple family (application)

**EP 11182174 A 20110921; IT MI20100293 U 20100922**