

Title (en)

Sound absorbing structure using closed-cell porous medium

Title (de)

Schalldämmende Struktur unter Verwendung eines porösen Mediums mit geschlossenen Poren

Title (fr)

Structure d'absorption sonore utilisant un support poreux à cellules fermées

Publication

EP 2157567 A2 20100224 (EN)

Application

EP 09010237 A 20090807

Priority

JP 2008211972 A 20080820

Abstract (en)

A sound absorbing structure (10) is constituted of a housing (20), a vibration member (30) composed of a closed-cell porous material whose airflow rate is less than 0.1 dm³/s, and an air cavity (40) formed inside the housing in the rear side of the vibration member. Alternatively, the vibration member is formed by laminating an open-cell porous material or an air-permeable member with the closed-cell porous material. The sound absorbing structure demonstrates a high sound absorption in a low frequency range due to the closed-cell porous material.

IPC 8 full level

G10K 11/162 (2006.01)

CPC (source: EP US)

G10K 11/172 (2013.01 - EP US)

Citation (applicant)

- JP 2008211972 A 20080918 - ISEKI AGRICULT MACH
- JP 2003316364 A 20031107 - SHOWA ELECTRIC WIRE & CABLE CO
- JP 2006011412 A 20060112 - SHOWA ELECTRIC WIRE & CABLE CO

Cited by

CN103072588A

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2157567 A2 20100224; JP 2010047942 A 20100304; JP 5245641 B2 20130724; US 2010044148 A1 20100225

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