

Title (en)

Acoustic panel for noise barriers and noise barrier provided with such a panel

Title (de)

Akustisches Panel für Lärmschutzwände und Lärmschutzwand mit einem solchen Panel

Title (fr)

Panneau acoustique pour barrière anti-bruit et barrière anti-bruit équipée d'un tel panneau

Publication

EP 2458090 A3 20140326 (EN)

Application

EP 11190856 A 20111125

Priority

IT TV20100150 A 20101125

Abstract (en)

[origin: EP2458090A2] An acoustic panel (1) characterized by comprising: a reverberating plate (6) having, on one of the two faces, a stepped-profile surface (6a) which is dimensioned so as to reflect in a "diffused" manner at least one incident acoustic wave with a predetermined reference frequency; and a layer of sound-absorbent material (7) which is coupled to the reverberating plate (6) so as to cover the stepped-profile surface (6a), and so as to be crossed in "diffused" manner by the acoustic wave reflected by said stepped-profile surface (6a); the profile of the stepped-profile surface (6a) being determined on the basis of the "Quadratic Residue" mathematical model.

IPC 8 full level

E01F 8/00 (2006.01)

CPC (source: EP)

E01F 8/007 (2013.01); **E01F 8/0082** (2013.01)

Citation (search report)

- [XYI] CH 600078 A5 19780615 - UNIBOARD AG
- [XI] CH 652432 A5 19851115 - FRANZI S A OFF
- [XYI] DE 7628651 U1 19780406
- [XYI] DE 20004549 U1 20000518 - GROETZ GEORG [DE]
- [XYI] AT 400961 B 19960528 - VOELKL CHRISTIAN [AT], et al
- [XYI] US 3656576 A 19720418 - GUBELA GUNTER

Cited by

ES2573202A1; CN112962480A; ITPD20130029A1; CN102737627A; AT522999A1; US10669783B2; WO2019055241A1; US9702143B2; US10151105B2

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 11190856 A 20111125; IT TV20100150 A 20101125