

Title (en)

GRANULE-FILLED ABSORBING SOUND BARRIER

Title (de)

MIT GRANULATGEFÜLLTE SCHALLDÄMMENDE SCHUTZWAND

Title (fr)

BARRIÈRE ACOUSTIQUE À ABSORPTION DU SON REMPLIE DE GRANULÉS

Publication

EP 3162961 A2 20170503 (EN)

Application

EP 16196321 A 20161028

Priority

DK PA201500677 A 20151030

Abstract (en)

Design of a sound barrier of the type comprising upright supports or pillars, which are anchored in the ground, wherein there are secured between said supports or pillars elongated primarily horizontally extending shield elements, consisting for example of thin-wall profiled metal sheets and a core of a sound-absorbing granule material or fiber material, characterized in that the granules used are based on recycled glass fiber. The glass fiber has previously been used in wind turbine blades, sailboats, and other non-polluting components. The fiberglass granules which are used are mechanically crushed into pieces varying in length and thickness, and therefore the granules which are used are not homogeneous in size. Costs of stockpiling and further processing are avoided, so that the environmental aspects regarding used fiberglass components can be addressed by recycling of the granules into absorbing material.

IPC 8 full level

E01F 8/00 (2006.01)

CPC (source: DK EP)

E01F 8/00 (2013.01 - DK); **E01F 8/0011** (2013.01 - EP); **E01F 8/007** (2013.01 - EP); **E04B 1/82** (2013.01 - DK EP); **E04B 1/84** (2013.01 - DK)

Citation (applicant)

DK 177352 B1 20130211 - JAKOB WUERTZEN [DK]

Cited by

EP4183928A1; EP4455402A1; EP3190231B1

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 3162961 A2 20170503; **EP 3162961 A3 20170524**; **EP 3162961 B1 20181024**; **EP 3162961 B2 20220216**; DK 179441 B1 20180912; DK 201500677 A1 20170515; DK 201700042 U1 20170515; DK 3162961 T3 20190225; DK 3162961 T4 20220523; PL 3162961 T3 20190628; PL 3162961 T5 20220711

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EP 16196321 A 20161028; DK 16196321 T 20161028; DK BA201700042 U 20170331; DK PA201500677 A 20151030; PL 16196321 T 20161028