

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 B2 20220216 (EN)

Application
EP 16196321 A 20161028

Priority
DK PA201500677 A 20151030

Abstract (en)
[origin: EP3162961A2] 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); **E04B 1/82** (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 (opposition)

Opponent :

- US 2005188649 A1 20050901 - HAGEN HANS T JR [US]
- EP 0762382 A1 19970312 - ZEON KASEI KK [JP]
- US 5484970 A 19960116 - SUZUKI MASAMI [JP], et al
- WO 0070147 A1 20001123 - EFTEC INC [US]
- EP 3190231 A1 20170712 - WÜRTZEN JAKOB [DK]
- "STØJSKÆRM SOM L/ERESTYKKE", CO-CREATE CONSTRUCTION., 27 June 2016 (2016-06-27), Retrieved from the Internet <URL:http://cocreateconstruction.dk/artikler/stojaskaerm-som-laerestykke>
- VALLENSBAEKKOMMUNE: "Fra vindmølle til støjskærm", YOUTUBE VIDEO, 26 October 2016 (2016-10-26), Retrieved from the Internet <URL:https://www.youtube.com/watch?v=MEtMEEYh64&feature=youtu.be> [retrieved on 20190619]
- CVR register information on Milijoskeerm ApS
- Printout from meeting agenda/ protocol of a meeting held on 01-12-2015 in 'Teknik- og Miljøudvalget' Vallensbæk municipality, see website (https://vallensbaek.dk/dagsorden/teknik-og-miljoudvalget-01-12-2015), including annexes 1-6 listed under item 10 in the agenda/ protocol
- Report of recycling of glass fiber materials 'Miljøtest nr. 1455, 2012' from the Danish Environmental Protection Agency
- Translation into English of the passages emphasized in grey marking in P-E2
- Report of recycling of glass fiber materials 'Miljøtest nr. 1455, 2012' from the Danish Environmental Protection Agency
- ISO Standard 10534-2:2001 published on 8 October 2001
- ISO standard 534:2003 published on 12 September 2003, including description of test arrangement and test measurements
- ISO standard 1793-1:1997 published on 7 April 1998
- "Video of disassembly of a cassette of the sound barrier installed at Vallensbæk", 20 August 0211 (2011-08-20), Retrieved from the Internet <URL:https://www.youtube.com/watch?v=ePPUco7esYA&feature=youtu.be>
- 23 June 2016 (2016-06-23), Retrieved from the Internet <URL:https://www.tv2lorry.dk/nyheder/23-06-2016/2227/alternativ-stojaskaermning-pa-vestegnen?autoplay=1?v=0_7mhl9y7e>
- Invoice of Milijoskeerm ApS to installation firm NCC Danmark A/S for Vallensbæk project
- Report drafted for Danish Environmental Agency with the title 'Pilot production of noise screen made of recycled glass fiber'

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

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