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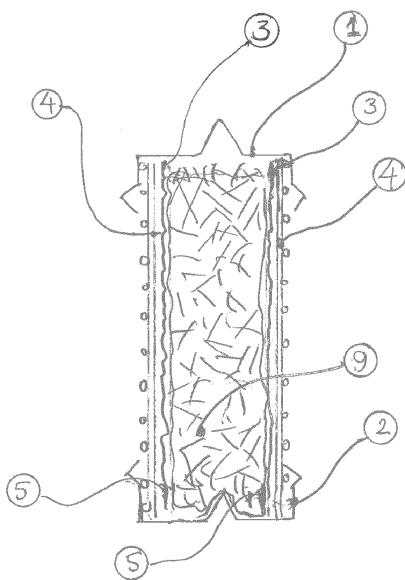
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(54) GRANULE-FILLED ABSORBING SOUND BARRIER

(57) 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.

Fig 1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10 X	WO 2013/076601 A1 (WUERTZEN JAKOB [DK]) 30 May 2013 (2013-05-30) * page 14, paragraphs 2,3 * * page 16, paragraph 4-5; figures 1,9,10 * -----	1 11	INV. E01F8/00 E04B1/82
15 A	WO 02/066542 A2 (SPERBER HENRY [US]) 29 August 2002 (2002-08-29) * page 5, lines 18-21 * * page 8, line 6 - page 9, line 10; figures 1,4 *	1-3,11	
20 A	EP 2 363 544 A1 (RECOLINER BVBA [BE]) 7 September 2011 (2011-09-07) * paragraphs [0020], [0021], [0024], [0029]; claim 1; figures *	1,11	
25 A	US 2010/224442 A1 (SANDERS MARK [US]) 9 September 2010 (2010-09-09) * paragraph [00190020]; figure 1 *	1,11	
30 A	US 2007/098973 A1 (WAGNER CHRISTOPHE [US] ET AL) 3 May 2007 (2007-05-03) * paragraph [0020]; figures *	1,11	TECHNICAL FIELDS SEARCHED (IPC)
35 A	US 4 143 495 A (HINTZ ULRICH) 13 March 1979 (1979-03-13) * column 2, lines 9-18; figures 1-3 *	1,11	E01F E04B
40			
45			
50 1	The present search report has been drawn up for all claims		
55	Place of search Munich	Date of completion of the search 19 April 2017	Examiner Stern, Claudio
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-04-2017

10	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
15	WO 2013076601 A1	30-05-2013	DK	177352 B1	11-02-2013
			DK	177664 B1	03-02-2014
			EP	2782731 A1	01-10-2014
			WO	2013076601 A1	30-05-2013
20	WO 02066542 A2	29-08-2002	AU	2002238069 A1	04-09-2002
			CA	2438329 A1	29-08-2002
			US	2002112442 A1	22-08-2002
			WO	02066542 A2	29-08-2002
25	EP 2363544 A1	07-09-2011	EP	2363544 A1	07-09-2011
			ES	2484015 T3	08-08-2014
			UA	110785 C2	25-02-2016
30	US 2010224442 A1	09-09-2010	NONE		
	US 2007098973 A1	03-05-2007	US	2007098973 A1	03-05-2007
			US	2012133068 A1	31-05-2012
35	US 4143495 A	13-03-1979	NONE		
40					
45					
50					
55					