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(54) FLAGPOLE BRACKET

(57) The present invention refers to a flagpole bracket comprising a fastening element, designed to fix the flagpole bracket to a wall, and a support element, designed to hold a flagpole. Attached to the fastening element (1) is a support element (1') comprising a set of vertically spaced drainage lamellae (2₁, ..., 2_n), whereby the design of the lowest drainage lamella (2_n) is thicker than that of other drainage lamellae (2₁, ..., 2_{n-1}). Further-

more, all drainage lamellae (2₁, ..., 2_{n-1}) with the exception of the lowest drainage lamella (2_n) are designed with at least one pierced hole (3) for holding the flagpole (4), whereby the drainage lamellae (2₁, ..., 2_n) are, in relation to the fastening element (1), arranged obliquely in the direction from the fastening element (1) towards the ground.

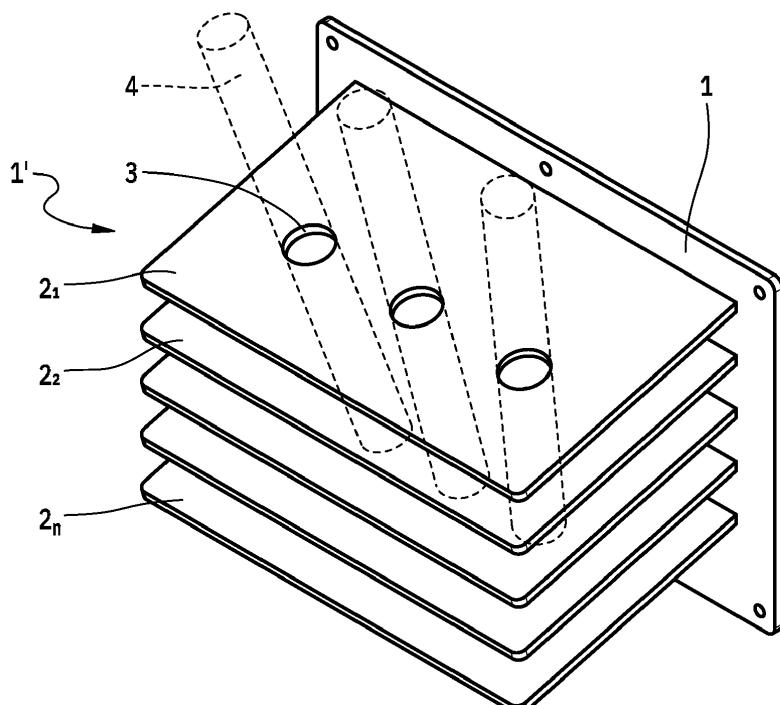


FIG. 1

Description

[0001] The present invention refers to a flagpole bracket comprising a fastening element, designed to fix the flagpole bracket to a wall, and a support element, designed to hold a flagpole.

[0002] The flagpole bracket referred to above is common and typically comprises a wall-mounted tubular holder. The drawback of all known solutions is that during rainfall, the water that soaks the flag and trickles from the flag and/or down the flagpole and/or the flagpole bracket drains down the tubular holder and onto the wall on which the holder is mounted. The water that drains this way then damages the wall, for instance the façade of the building on which the tubular holder is mounted.

[0003] The object of the invention is to provide a new flagpole bracket that eliminates the drawbacks of the known solutions.

[0004] The object according to the present invention is accomplished by the characteristics set forth in the characterizing portion of claim 1. The details of the invention are disclosed in the corresponding sub-claims.

[0005] Below, the invention is presented in more detail on the basis of a non-limiting embodiment and with reference to the accompanying drawings, where

- Fig. 1 shows a flagpole bracket in a three-dimensional view,
- Fig. 2 shows a flagpole bracket shown in Fig. 1. as seen from the front,
- Fig. 3 shows a embodiment of the flagpole bracket in a three-dimensional view,
- Fig. 4 shows a flagpole bracket shown in Fig. 3 as seen from the front,
- Fig. 5 another embodiment of the flagpole bracket as seen from the side,
- Fig. 6 another embodiment of the flagpole bracket as seen from the side,
- Fig. 7 another embodiment of the flagpole bracket as seen from the side,
- Fig. 8 another embodiment of the flagpole bracket as seen from the side.

[0006] The flagpole bracket as per the invention comprises a flat fastening element 1, which can be designed as a flat or optionally curved plate to be mounted on a flat or curved wall, to a quoin, and similar. The fastening element 1 further can have a planar design of any shape, for instance a square, circle, ellipse, shield, or similar. Furthermore, attached to the fastening element 1 is a support element 1' comprising a set of drainage slats 2₁... 2_n that, in relation to the position of the flag or flagpole, are vertically spaced, whereby drainage lamella 2₁ is the uppermost drainage lamella and drainage lamella 2_n the lowermost drainage lamella. All drainage lamellae 2₁... 2_{n-1} with the exception of the lowermost drainage lamella 2_n are designed with at least one pierced hole 3 for holding the flagpole 4. According to the present in-

vention, it is foreseen that the said set of vertically spaced drainage lamellae 2₁... 2_n comprises at least two drainage lamellae.

[0007] The drainage lamellae 2₁, ... 2_n, which are, in relation to the fastening element 1, arranged obliquely in the direction from the fastening element 1 towards the ground, can be designed with an identical thickness or each individual drainage lamella 2₁, ... 2_n can be of a different thickness. Particularly the design of the lowest drainage lamella 2_n is thicker than that of other drainage lamellae 2₁, ... 2_{n-1}.

[0008] According to the present invention, it is foreseen that the uppermost drainage lamella 2₁ is configured to hold lighting devices, such as LED lamps, for instance to illuminate the flag or flags, and the lowermost drainage lamella 2_n, which has the thickest design, is configured to hold lighting devices 5, such as LED lamps, to illuminate the façade and/or the ground below the flagpole bracket. Furthermore, it is foreseen that at least one of the drainage lamellae 2₁, ... 2_n is configured to receive a photosensitive device that generates electricity, which can supply additional energy to the said lightning devices, such as the LED lamp 5.

[0009] Furthermore, according to the present invention, it is foreseen that at least one of the drainage lamellae 2₁, ... 2_{n-1} is, on its reverse side, which faces the fastening element 1, configured to hold lighting devices, such as LED lamps. In this case, at least one of the drainage lamellae 2₁, ... 2_{n-1} is made from a translucent material. This way, it is possible to use multi-coloured LED lamps to achieve a lighting effect on the front side 6 of each drainage lamella 2₁, ... 2_{n-1}, which can, for example, match the colours of the flag. It is also possible to have a set-up whereby the lighting devices are arranged in the space between each pair of neighbouring drainage lamellae 2₁, ... 2_n.

[0010] Furthermore, the embodiment of the flagpole bracket according to the invention foresees that arranged between the uppermost drainage lamella 2₁ and the lowermost drainage lamella 2_n is a tubular extension 7 for holding the flagpole 4. According to one of the possible versions, the tubular extension 7 is, at least on the side that at least partly faces away from the fastening element 1, designed with a set of pierced holes 8, which are designed to drain rainwater.

[0011] According to the next version, it is foreseen that the tubular extension 7 is designed as a set of, in relation to the normal surface of each drainage slat 2₁, ... 2_n, circularly and mutually spaced rods 10 forming an assembly similar to the tubular extension 7 for holding the flagpole 4.

[0012] According to the following version, which is depicted in Fig. 7, it is foreseen that arranged between the uppermost drainage lamella 2₁ and the lowermost drainage lamella 2_n is a tubular extension 7 designed as the first tubular section 11, which is connected to the uppermost drainage lamella 2₁, and the second tubular section 12, which is connected to the lowermost drainage lamella

2₁. The tubular extensions 11, 12 are, in their longitudinal direction, connected to the third tubular section 13, which is designed to be water-permeable, for instance from wire mesh, perforated tin, or similar.

[0013] According to the following version, which is depicted in Fig. 8, it is foreseen that arranged between the uppermost drainage lamella 2₁ and the lowermost drainage lamella 2_n is a tubular extension 7 that can be designed approximately as an axial cross-section of a cone-shaped shell 14. The shell 14 of the axial cross-section cone is designed to be water-permeable, for instance from wire mesh, perforated tin, or similar.

[0014] Moreover, the tubular extension 7 can, in its longitudinal direction, reach beyond the top surface of the uppermost drainage lamella 2₁, whereby, in this case, the free end of the tubular extension 7 can optionally be finished with a flange 9.

[0015] When the flagpole bracket according to the invention is arranged above a doorway or a similar section, which must be protected from water, an embodiment is foreseen where the lowermost drainage lamella 2_n is designed with a gutter to divert water into the rainwater downspout of the building on which the flagpole bracket is mounted.

[0016] Furthermore, the present invention foresees that the lowermost drainage lamella 2_n can optionally be designed in such a way that it at least partly closes the end of the tubular extension 7 that works in tandem with it. In order to enable the drainage of rainwater from the tubular extension 7, the lowermost drainage lamella 2_n is, in this case, optionally designed with a pierced hole.

[0017] The flagpole bracket according to the invention can be made from different materials, for instance metal, natural, or artificial material, and it can be entirely opaque, or either partly or entirely translucent.

[0018] Furthermore, the present invention foresees that on any part of the flagpole bracket, an identity tag is designed and installed, such as a street number, emblem, coat of arms, or similar.

Claims

1. A flagpole bracket comprising a fastening element, which is designed to fix the flagpole bracket on a wall, and a support element, which is intended to hold the flagpole, **characterized in that** attached to a fastening element (1) is a support element (1') comprising a set of vertically spaced drainage lamellae (2₁, ..., 2_n), whereby the drainage lamellae (2₁, ..., 2_{n-1}) with the exception of the lowest drainage lamella (2_n) are formed with at least one pierced hole (3) for holding the flagpole (4), whereby the drainage lamellae (2₁, ..., 2_n) are, in relation to the fixing element (1), arranged obliquely in the direction from the fastening element (1) towards the ground.

2. The flagpole bracket according to claim 1, **charac-**

terized in that the set of vertically spaced drainage lamellae (2₁, ..., 2_n) comprises at least two drainage lamellae.

5 3. The flagpole bracket according to claim 1 or 2, **charac-**
terized in that the drainage lamellae (2₁, ..., 2_n) can be designed with an identical thickness.

10 4. The flagpole bracket according to claim 1 or 2, **charac-**
terized in that each individual drainage lamella (2₁, ..., 2_n) can be of a different thickness.

15 5. The flagpole bracket according to claim 1 or 2, **charac-**
terized in that an inclination angle of the drainage lamellae (2₁, ..., 2_n) is equal to or different from that of the fastening element (1).

20 6. The flagpole bracket according to claim 1 or 2, **charac-**
terized in that arranged between the uppermost drainage lamella (2₁) and the lowermost drainage lamella (2_n) is a tubular extension (7) for holding the flagpole (4).

25 7. The flagpole bracket according to claim 6, **charac-**
terized in that the tubular extension (7) is, at least on the side that at least partly faces away from the fastening element (1), designed to drain rainwater.

30 8. The flagpole bracket according to claims 6 or 7, **charac-**
terized in that between the uppermost drainage lamella (2₁) and the lowermost drainage lamella (2_n) is a tubular extension (7) designed to feature the first tubular section (11), which is connected to the uppermost drainage lamella (2₁), and the second tubular section (12), which is connected to the lowermost drainage lamella (2₁), whereby the tubular sections (11, 12) are, in their longitudinal direction, connected to the third tubular section (13), which is designed to be water-permeable.

35 9. The flagpole bracket according to claim 6 or 7, **charac-**
terized in that between the uppermost drainage lamella (2₁) and the lowermost drainage lamella (2_n) is a tubular extension (7) that can be designed approximately as an axial cross-section of a cone-shaped shell (14), which is designed to be water-permeable.

40 10. The flagpole bracket according to any of the preceding claims, **characterized in that** the lowermost drainage lamella (2_n) can optionally be designed in such a way that it at least partly closes the end of the said tubular extension (7) that works in tandem with it, whereby the lowermost drainage lamella (2_n) is optionally designed with a pierced hole so as to enable the drainage of rainwater from the tubular extension (7).

11. The flagpole bracket according to any of the preceding claims, **characterized in that** the lowermost drainage lamella (2_n), which has the thickest design, is configured to hold lighting devices, such as an LED lamp. 5

12. The flagpole bracket according to any of the preceding claims, **characterized in that** at least one of the drainage lamellae ($2_1, \dots, 2_n$) is configured to hold a photosensitive device that generates electricity, 10 which supplies energy to the lighting devices.

13. The flagpole bracket according to any of the preceding claims, **characterized in that** at least one of the drainage lamellae ($2_1, \dots, 2_{n-1}$) is configured to hold 15 lighting devices, whereby the at least one of the drainage lamellae ($2_1, \dots, 2_{n-1}$) is made from a translucent material.

14. The flagpole bracket according to any of the preceding claims, **characterized in that** the lighting devices can be arranged in the space between each pair of neighbouring drainage slats ($2_1, \dots, 2_n$). 20

15. The flagpole bracket according to any of the preceding claims, **characterized in that** on any part of the flagpole bracket, an identity tag can be designed and installed, such as a street number, emblem, coat of arms, or similar. 25

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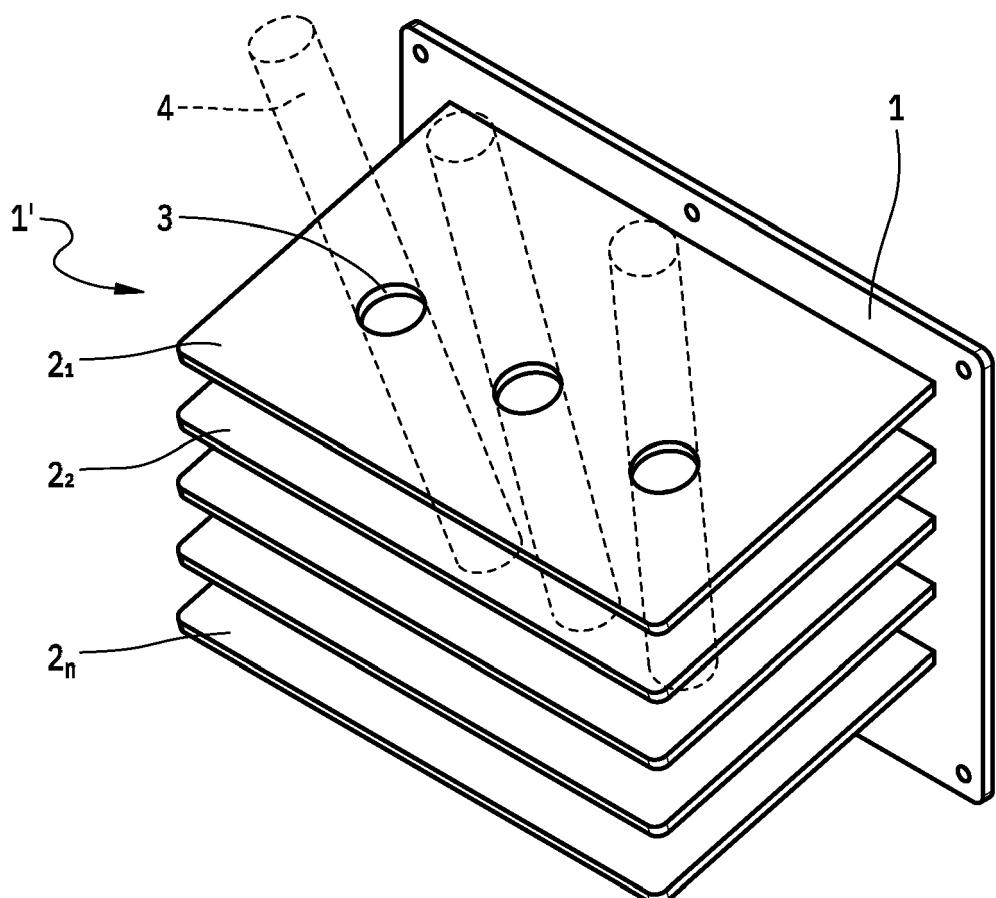


FIG. 1

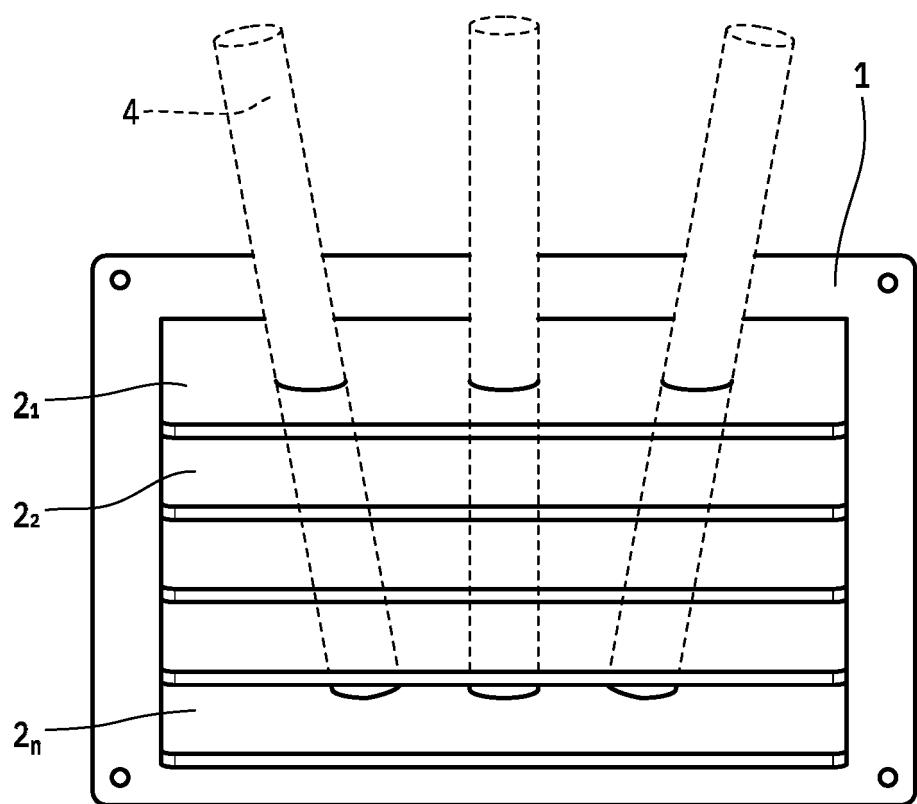


FIG. 2

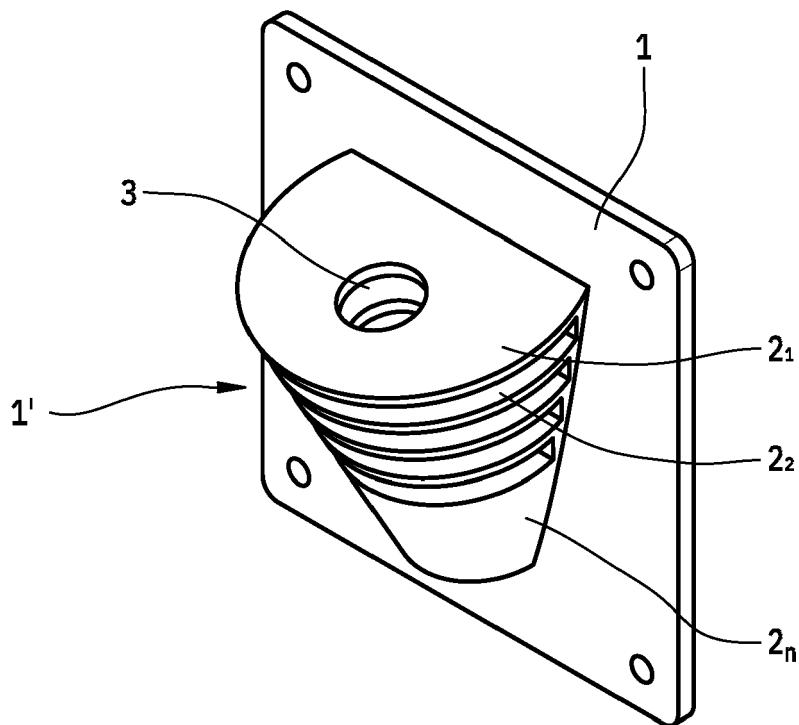


FIG. 3

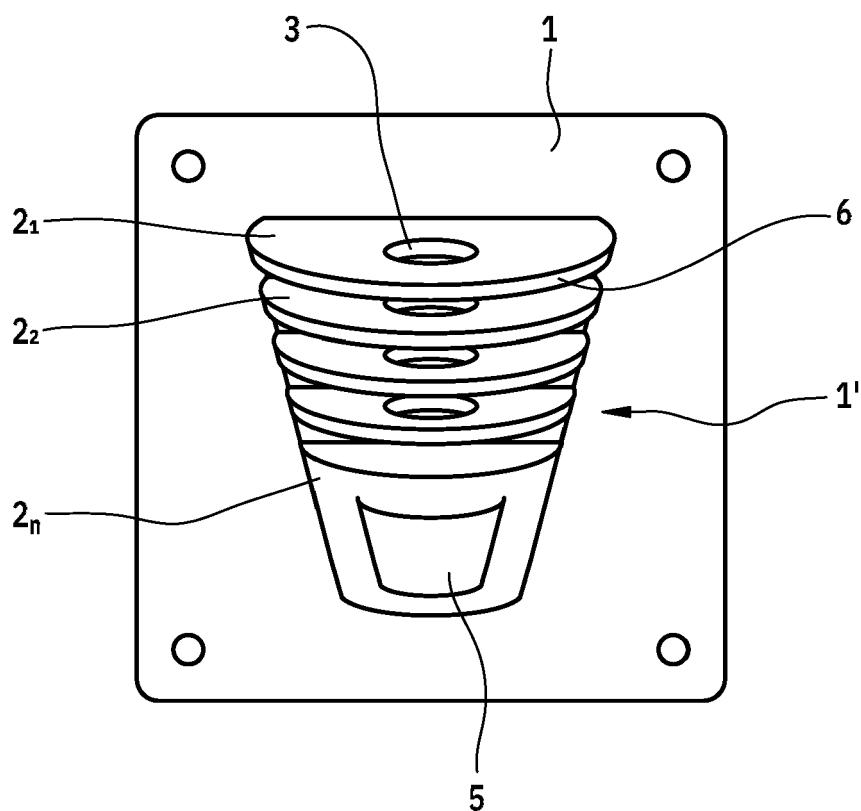


FIG. 4

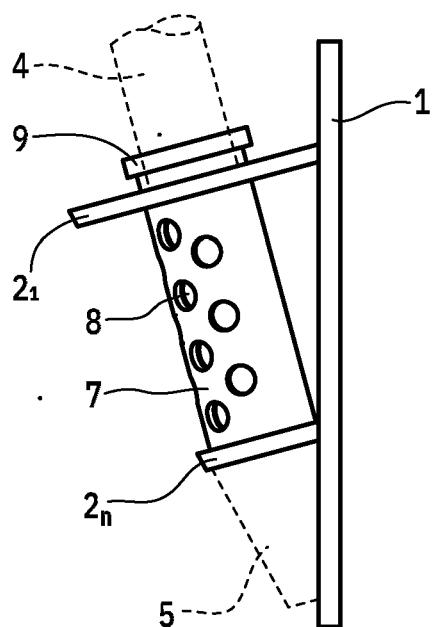


FIG. 5

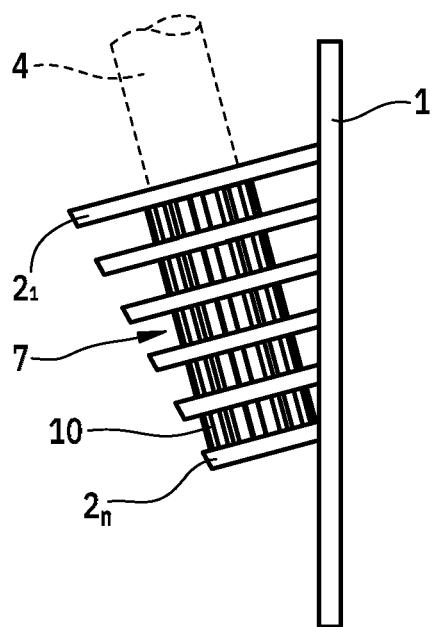


FIG. 6

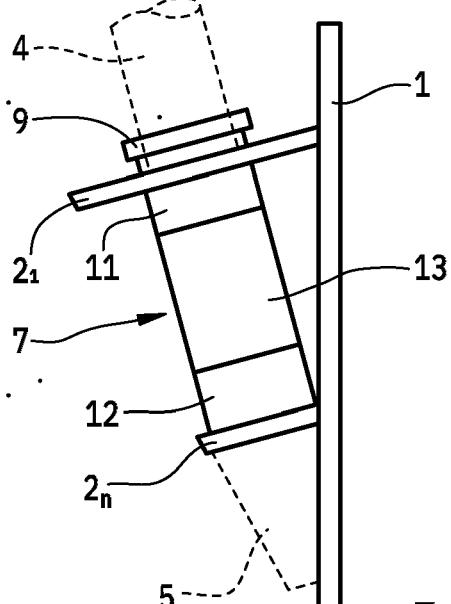


FIG. 7

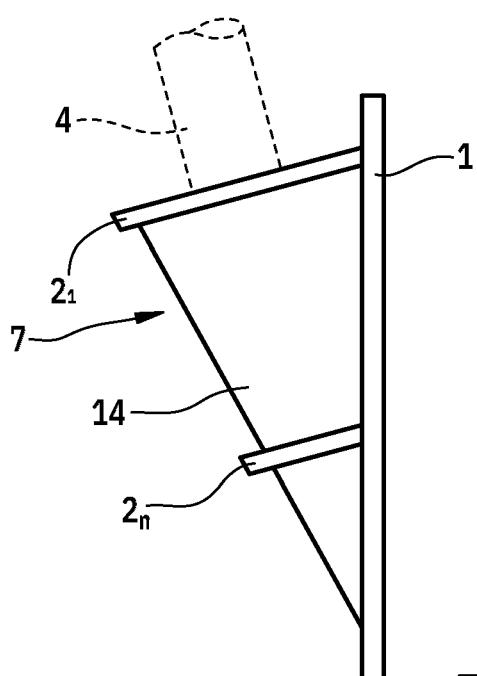


FIG. 8



EUROPEAN SEARCH REPORT

Application Number

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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	<p>X KR 200 296 228 Y1 (JUNG, JIN-BYUNG [KR]) 23 November 2002 (2002-11-23)</p> <p>Y * abstract * * figures *</p> <p>-----</p> <p>Y KR 100 764 670 B1 (JANG JIN HO [KR]; JANG HO [KR]) 8 October 2007 (2007-10-08)</p> <p>A * abstract * * figure 1 *</p> <p>-----</p> <p>Y RU 2 315 366 C2 (KUDRYATSEV, I [RU]) 20 January 2008 (2008-01-20)</p> <p>A * abstract * * paragraph [0040] * * figures 2,3 *</p> <p>-----</p> <p>A JP 2005 141097 A (TONE YUKIO) 2 June 2005 (2005-06-02)</p> <p>* abstract * * figures 4,6 *</p> <p>-----</p> <p>A WO 2018/148790 A1 (TORPY PETER BRIAN [AU]) 23 August 2018 (2018-08-23)</p> <p>* paragraph [0062] * * figure 10 *</p> <p>-----</p>	1-5, 8, 11-15 6, 7, 9, 10 6, 7, 10 9 1-8, 10-15 1-15	INV. G09F17/00 G09F13/02 G09F27/00
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50	<p>1 The present search report has been drawn up for all claims</p>		
55	<p>1 Place of search</p> <p>The Hague</p> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p>	<p>1 Date of completion of the search</p> <p>6 February 2023</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>	<p>Examiner</p> <p>Lechanteux, Alice</p>

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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.

06-02-2023

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
	KR 200296228 Y1	23-11-2002	NONE	
15	KR 100764670 B1	08-10-2007	NONE	
	RU 2315366 C2	20-01-2008	NONE	
	JP 2005141097 A	02-06-2005	NONE	
20	WO 2018148790 A1	23-08-2018	AU 2018221885 B2 EP 3583278 A1 US 2020058240 A1 WO 2018148790 A1	19-09-2019 25-12-2019 20-02-2020 23-08-2018
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