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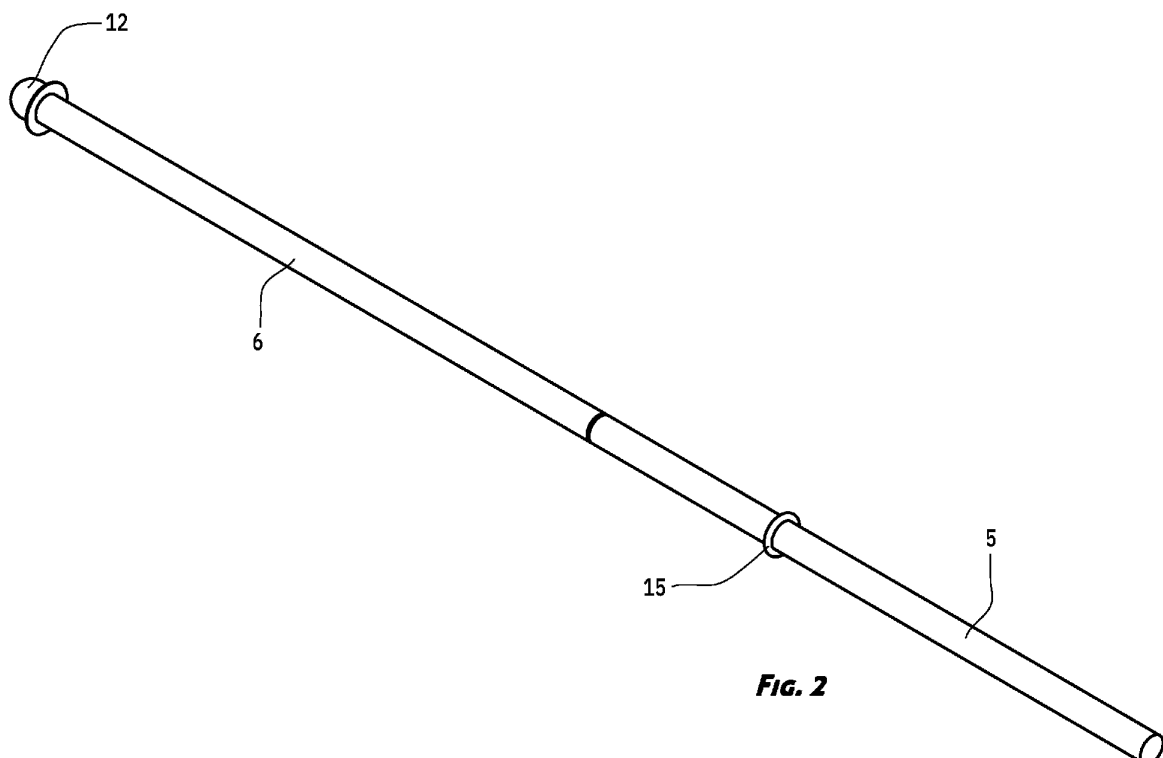
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(54) **FLAGPOLE**

(57) The present invention refers to a flagpole, preferably a rigid flagpole, which can be mounted on the external wall of a building or similar. The rigid pole comprises at least two longitudinally connected tubes arranged to rotate against each other, first tube (5) and second tube (6), whereby the ability of the tubes (5, 6) to rotate against each other is achieved by one, preferably at least two, optionally more, bearing means (7), which are fixed

individually or in pairs longitudinally inside each of the tubes (5, 6), which are mutually fixed in position by means of a connecting pole (8) extending approximately along the entire length of the pole (1), whereby the second tube (6) comprises a flange at its free end (13) that comprises the end element (12), and whereby the pole (1) features at least one additional drip-off element (15).



**Fig. 2**

## Description

[0001] The present invention refers to a flagpole, preferably a rigid flagpole, which can be mounted on the external wall of a building or similar.

[0002] The type of flagpole of the aforementioned kind is generally known. The problem with a flag fixed to the said pole is that the flag wraps around the pole due to the wind. Moreover, another significant problem is that water droplets, which are the result of weather conditions, drip from the tip, the flag, and the flagpole onto the wall on which the flagpole is mounted. This results as damages of the wall.

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

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

[0005] The invention is further described in detail by way of non-limiting embodiment, and with a reference to the accompanying drawings, where

Fig. 1 shows a flagpole according to the invention mounted onto a wall,

Fig. 2 shows the flagpole of Fig. 1 in a three-dimensional view,

Fig. 3 shows a longitudinal cross-section of the flagpole of Fig. 1.

[0006] A pole 1 for a flag 2 is intended to be fixed to a pole holder 3, which is mounted on an external wall 4 of a building or similar. Here, a first free end of the pole 1 is intended for cooperation with the said pole holder 3 while the opposite end of the pole 1 is intended for holding the flag 2.

[0007] The said pole 1 according to the invention comprises at least two longitudinally connected tubes 5, 6 arranged to rotate against each other, whereby a first tube 5 is fixed and intended to cooperate with the pole holder 3, whereas a second tube 6 is intended to receive the flag 2 and rotate about the longitudinal axis of the pole 1 relative to the first tube 5. The length of each tube 5, 6 is preferably approximately the same; however, the lengths of tubes 5, 6 can also differ significantly.

[0008] Rotating the tubes 5, 6 against each other can also be achieved with one, preferably at least two, optionally more, bearing means 7 fixed individually or in pairs longitudinally inside each tube 5, 6. Each bearing means 7 can be a sliding bearing, rolling bearing, or similar. Furthermore, each bearing means 7 in each tube 5, 6 is located in each extreme end area of the tube 5, 6.

[0009] The said tubes 5, 6 are mutually fixed in position by means of a connecting pole 8, which extends through the corresponding hole of the respective bearing means 7 along at least one part of the pole 1 length. The said connecting pole 8 is formed at least on its first far end,

which lies in the area of pole 1 intended for holding the flag 2, with a threaded means 9, e.g., a threaded protrusion, which is intended for cooperation with an opposite threaded means 10, e.g., a nut. Furthermore, the present invention provides for that sections of the said connecting pole 8 extends piecewise inside a sleeve 11, which holds the said bearing means 7 at a fixed distance from one another. The connecting pole 1 may be fixed inside the first tube 5 by means of the said bearing means 7; alternatively, it can be inserted and fixed firmly in the first tube 5, e.g., by means of a shrink joint.

[0010] The second tube 6, which is intended to hold the flag, comprises on its free end, i.e., the end facing away from the first tube 5, an end element 12, which is, for example, designed as a sphere, tip, or similar. The said end element 12 is, for example, firmly connected by means of a threaded joint to the threaded means 9 of the connecting pole 8. Furthermore, the end element 12, is formed on the side facing the free end of the second tube 6 with a flange 13, which is intended as a first drip-off element to prevent water dripping down the flagpole 1. Furthermore, the end element 12 is formed in the extension of the flange 13 and in the longitudinal direction of the pole 1 towards the tube 5 with a cover element 14, which is impermeable to water and surrounds and closes off the said free end of the second tube 6. An embodiment is possible according to the present invention with the said cover element 14 formed as a standalone element located between the end element 12 or the flange 13 thereof.

[0011] Furthermore, the present invention provides for that the pole 1 for a flag 2 comprises at least one additional drip-off element 15, which is located in the area of the third of the first tube 5, which cooperates with the said pole holder 3. The additional drip-off element 15 may be, for example, formed as a protrusion extending at least partly around the circumference and approximately perpendicular to the first tube 5. Furthermore, the additional drip-off element 15 may be, for example, formed in a sense of an element comprising several threads of a helix, which is wrapped around the circumference of the first tube. The helix-shaped drip-off element 15 may be selected as a compression spring in a form of a metal strip or a wire with a circular cross-section, and similar.

## Claims

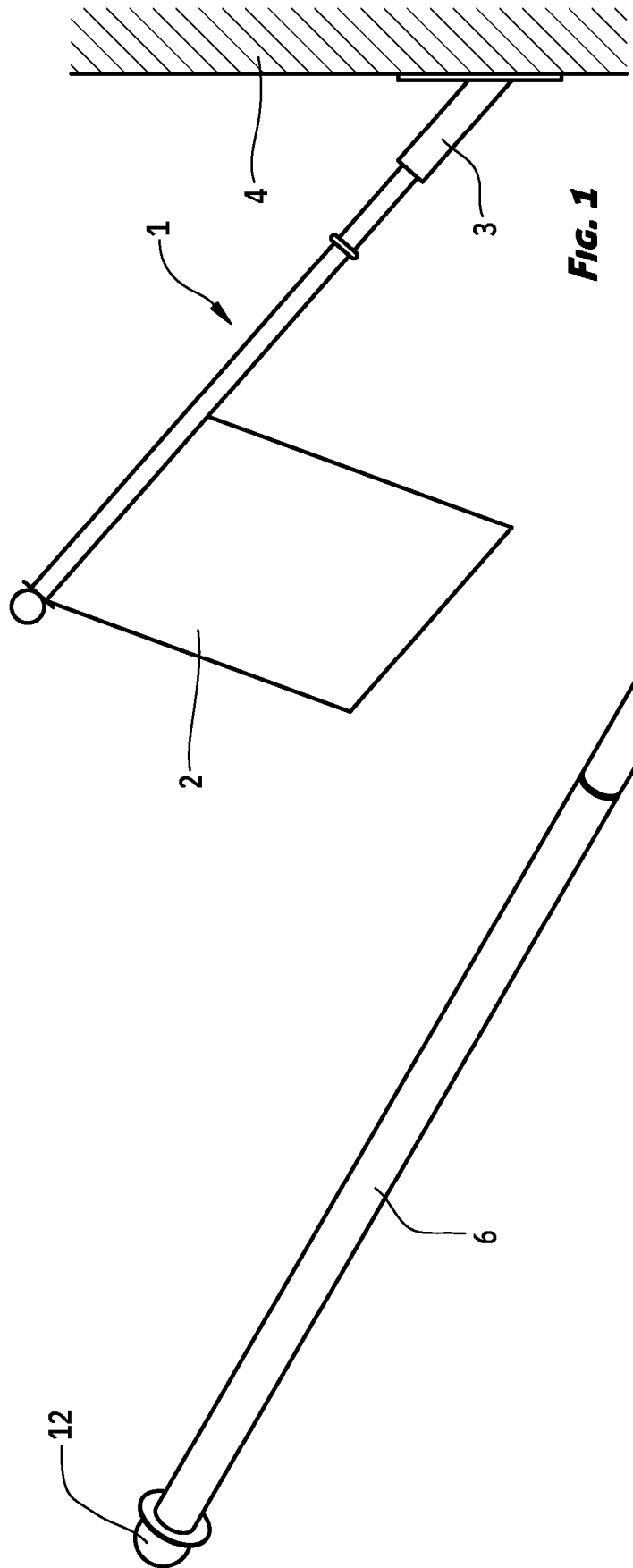
1. A flagpole, preferably a rigid flagpole, which can be mounted onto the external wall of a building or similar, **characterized in that** it comprises at least two longitudinally connected first tube (5) and second tube (6), arranged to rotate against each other, whereby the ability of the tubes (5, 6) to rotate against each other is achieved by one, preferably at least two, optionally more, bearing means (7), which are fixed individually or in pairs longitudinally inside each of the tubes (5, 6), which are mutually fixed in position

by means of a connecting pole (8) extending approximately along at least a part of the length of the pole (1), whereby the second tube (6) comprises at its free end an end element (12) formed with a flange (13), and whereby the pole (1) comprises at least one additional drip-off element (15).

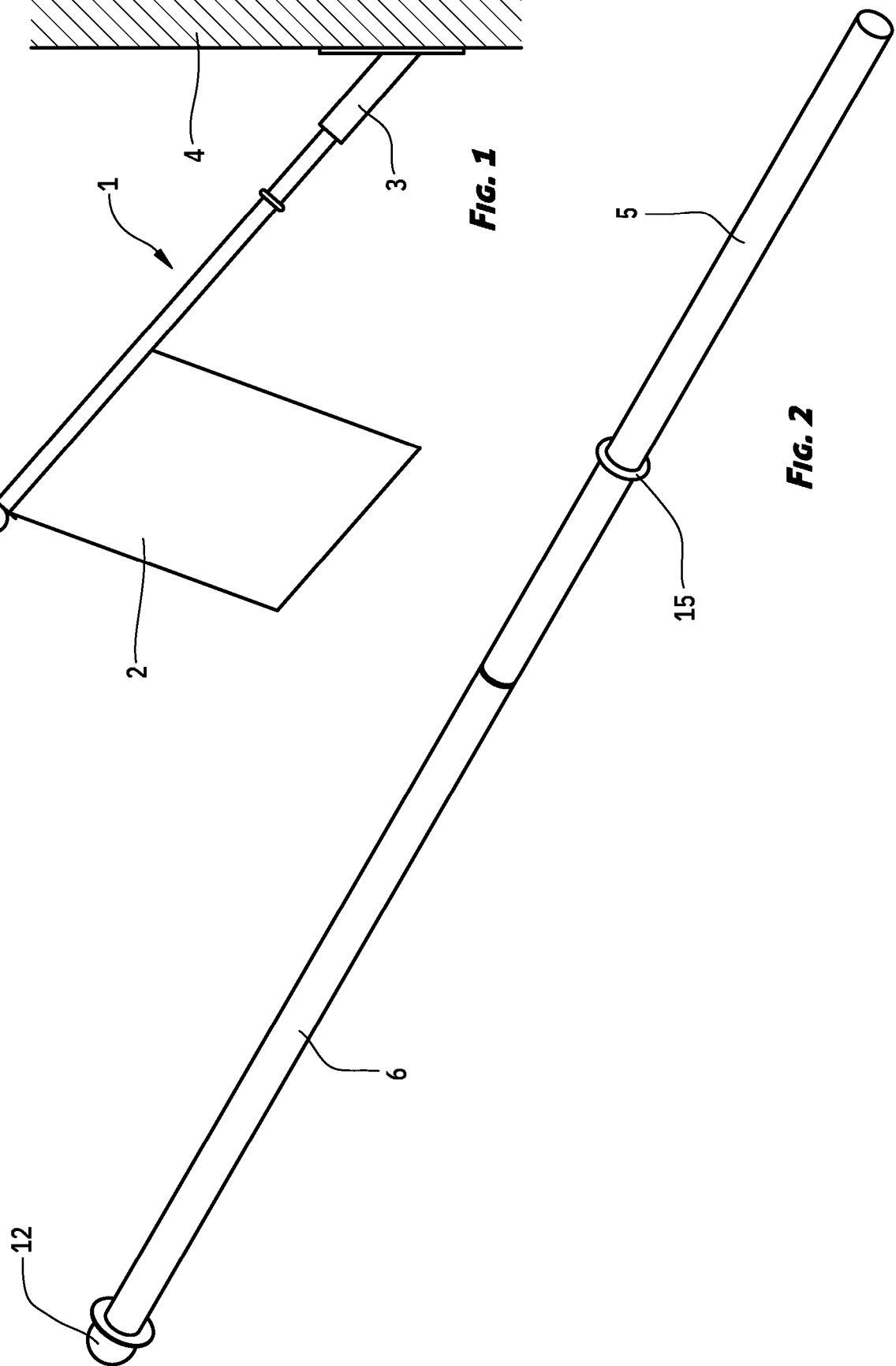
2. A flagpole according to claim 1, **characterized in that** the first tube (5) is stationary and intended to cooperate with the pole holder (3), while the second tube (6) is intended to hold the flag (2) and rotate longitudinally in the direction of the pole (1) relative to the first tube (5). 10
3. A flagpole according to any of the preceding claims, **characterized in that** the said connecting pole (8) is formed on at least one of its far ends with a threaded means (9), which is intended to cooperate with the opposite threaded means (10), whereby the connecting pole (8) extends piecewise inside a sleeve (11) that holds the bearing means (7) at a fixed distance from one another. 15 20
4. A flagpole according to any of the preceding claims, **characterized in that** the said connecting pole (8) in the first tube (5) can be firmly fixed, e.g., with a shrink joint. 25
5. A flagpole according to any of the preceding claims, **characterized in that** each bearing means (7) is selected as a sliding bearing, rolling bearing, or similar, and is located in each tube (5, 6) in each far end area of the tube (5, 6). 30
6. A flagpole according to any of the preceding claims, **characterized in that** the said end element (12) can be firmly connected by means of a threaded joint to the threaded means (9) of the connecting pole (8). 35
7. A flagpole according to any of the preceding claims, **characterized in that** the flange (13) of the end element (12) is provided as a first drip-off element to prevent water from dripping down the flagpole (1). 40
8. A flagpole according to any of the preceding claims, **characterized in that** the end element (12) in the extension of the flange (13) comprises a cover element (14), which is impermeable to water and surrounds and closes off the free end of the second tube (6). 45 50
9. A flagpole according to claim 8, **characterized in that** the said cover element (14) is designed as a stand-alone element. 55
10. A flagpole according to any of the preceding claims, **characterized in that** the additional drip-off element (15) is located in the area of the third of the first tube

(5), which cooperates with the said pole holder (3).

11. A flagpole according to claim 10, **characterized in that** the additional drip-off element (15) can be formed as a protrusion extending at least partly around the circumference and approximately perpendicular to the first tube (5).
12. A flagpole according to claim 10, **characterized in that** the additional drip-off element (15) can be designed as an element comprising several threads of a helix, which is wrapped around the circumference of the first tube (5).



**FIG. 1**



**FIG. 2**

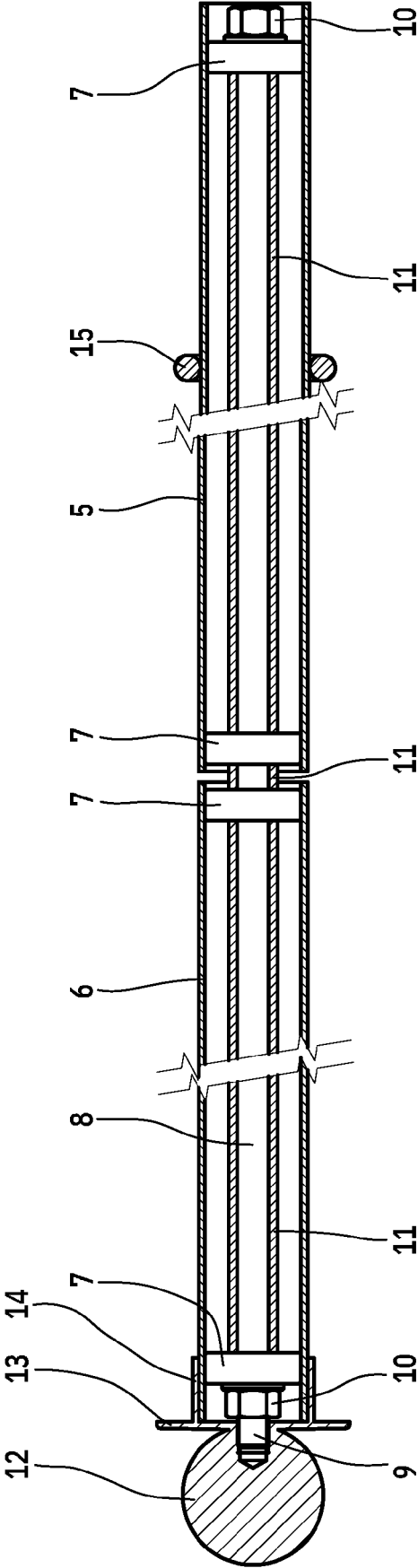


FIG. 3



## EUROPEAN SEARCH REPORT

Application Number

EP 22 17 5703

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category                                                                         | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim                                            | CLASSIFICATION OF THE APPLICATION (IPC) |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|
| X                                                                                | US 4 918 896 A (WIESE HAROLD [US])<br>24 April 1990 (1990-04-24)              | 1, 2, 4, 5                                                   | INV.<br>E04H12/32                       |
| Y                                                                                | * column 2, line 22 - column 4, line 63;                                      | 6, 8-12                                                      | G09F17/00                               |
| A                                                                                | figures 1-12 *                                                                | 7                                                            |                                         |
| Y                                                                                | US 5 005 512 A (FU SHAN C [TW])<br>9 April 1991 (1991-04-09)                  | 6, 8-12                                                      |                                         |
| A                                                                                | * column 1, line 63 - column 3, line 2;<br>figures 1-5 *                      | 1-3                                                          |                                         |
| A                                                                                | US 5 363 607 A (TURTURRO NICHOLAS A [US])<br>15 November 1994 (1994-11-15)    | 1, 4, 5,<br>9-11                                             |                                         |
|                                                                                  | * abstract; figures 1-3 *                                                     |                                                              |                                         |
| The present search report has been drawn up for all claims                       |                                                                               |                                                              | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                  |                                                                               |                                                              | E04H<br>G09F                            |
| Place of search                                                                  | Date of completion of the search                                              | Examiner                                                     |                                         |
| Munich                                                                           | 31 October 2022                                                               | Stefanescu, Radu                                             |                                         |
| CATEGORY OF CITED DOCUMENTS                                                      |                                                                               | T : theory or principle underlying the invention             |                                         |
| X : particularly relevant if taken alone                                         |                                                                               | E : earlier patent document, but published on, or            |                                         |
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| P : intermediate document                                                        |                                                                               | & : member of the same patent family, corresponding document |                                         |

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

EP 22 17 5703

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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31-10-2022

| 10 | Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82