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(54) **DEVICE FOR DRAWING LINES COMPRISING A PAINTBRUSH HANDLE WITH THROUGH-HOLES**

(57) Device for drawing lines in general in the sectors of construction, home improvement, DIY, and the like, characterized in that it comprises a body (2) having an elongated shape, in which a plurality of mutually spaced through-holes (3) is provided, each suitable for accommodating the tip of a pencil (4) or the like, for drawing traces (11) of the edges of walls, doors, windows and

similar. Compared with the known art, the device of the invention offers the advantage of allowing to draw, quickly and easily and with just one operator, the trace of the edges of walls, doors and windows, arched or circle-shaped edges, with positive impacts on the speed and cost of the work and the equipment required.

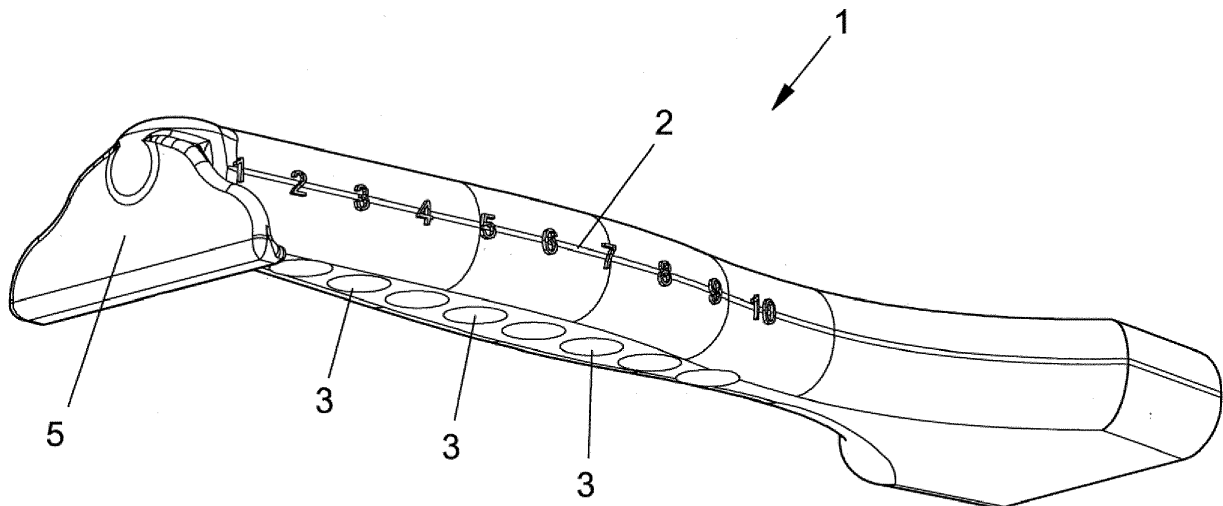


FIG.1

Description

BACKGROUND OF THE INVENTION

[0001] The present invention relates to a device for drawing lines in general in the fields of construction, home improvement, DIY and the like.

[0002] The field of application of the present invention is that of creating straight and circular lines for tracing, for example using a pencil, the edges or contours of doors, windows, etc. on walls and the like.

[0003] In order to trace the edges and contours of doors and windows on walls at the present time, a tape measure, a pencil, a colored chalk line, adhesive paper tape, a flexible edge protector for arcs and a compass for circles are required at least.

[0004] With these tools, a first operator marks reference points for the tracing, while a second operator helps the first operator by holding the colored chalk line under tension so that it is kept straight.

[0005] To follow another procedure, the operator first marks the reference points of the trace, then sticks an adhesive tape at a first point and then tensions the tape, with the obvious risk of having to repeat this operation each time the tape comes off or somehow loses its position.

[0006] To trace curved lines, at the present time it is necessary to have a flexible edge protector, using two operators to hold the edge protector while a third person draws the trace with the pencil.

[0007] The known solutions described above have the disadvantages of using multiple tools (chalk line, edge protector, compass, adhesive tape, and more) and requiring several people to coordinate use of the tools in drawing the traces with a pencil.

[0008] US4656744A describes a device for marking irregular lines on wall panels or the like, comprising a bar and a slider adjustable thereon at given distances from the wall to be drawn on.

[0009] WO2006/008758A1 describes a kind of perforated square that is supposed to help draw lines and points on a surface to be machined.

SUMMARY OF THE INVENTION

[0010] The main object of the present invention is to provide a simple tool with which to realize, with precision and with just one operator, the traces of the contours of doors, windows, etc.

[0011] This and other objects are achieved by the device of claim 1. Preferred embodiments of the invention will be apparent from the remaining claims.

[0012] Compared with the known solutions described above, the device of the invention offers the advantage of allowing to draw, quickly and easily and with just one operator, the trace of the edges of walls, doors and windows, arched or circle-shaped edges, with positive impacts on the speed and cost of the work and the equip-

ment required.

[0013] Moreover, when the device of the invention is used as a handle for tools, such as for example a paintbrush and the like, the latter are lighter and easier to handle thanks to the presence of holes in the body of the handle.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] These and other objects, advantages and features will be apparent from the following description of the device of the invention illustrated, by way of nonlimiting example, in the figures of the attached drawings sheets.

[0015] In these:

- Figure 1 illustrates in perspective view an example of the device of the invention;
- Figures 2 and 3 illustrate the device of Figure 1, in use as a paintbrush handle viewed from the two sides, respectively;
- Figures 4 and 5 illustrate the device of the preceding figures, viewed from the side and in section, respectively;
- Figures 6 to 13 illustrate in perspective view the device of the preceding figures, in the mode of use as paintbrush handle;
- Figures 14 and 15 illustrate the paintbrush of the preceding figures, hooked on to the edge of a bucket.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0016] The device of the invention is indicated as a whole by the numeral 1 in Figure 1. It consists of a body 2 having an elongated shape, in which a plurality of mutually spaced through-holes 3 is provided, each suitable for accommodating the tip of a pencil 4 or other similar instrument, for drawing traces 11 of the edges of walls, doors, windows, etc. (Figures 2 to 13).

[0017] A first end 5 of the body 2 is advantageously shaped as a hook and represents the zero point for measurement of the distance between the holes 3. Preferably, this distance is 1 cm and the first end 5 of the device 1 rests on the wall as the zero point. In tracing the contours of doors and windows, the first end 5 also serves as a stabilizer or guide to the stroke of the tip of the pencil 4.

[0018] In the embodiment shown in Figures 2 to 13, the body 2 of the device 1 is advantageously used in the mode of handle of a paintbrush 6. In this case, bristles 8 of the paintbrush 6 used for color finishing are attached to a second end 7 of the body 2, opposite the first hook-shaped end 5. The first hook-shaped end 5 can be used to hang the brush 6 on the edge of the bucket 9 of Figures 14 and 15.

[0019] Obviously, it will be understood that the invention is not limited to the use of the device 1 as a handle for a paintbrush, the same device in fact being able to be

used effectively either alone or as a handle for other tools normally used by painters, such as a palette knife and the like.

[0020] In the use depicted in Figures 7 through 9, the device of the invention, used as a paintbrush handle, is employed to draw the external frames of doors and windows. In this case, the first hook-shaped end 5 of the paintbrush handle 2 engages against the edge of the shoulder 10 of the window or door. Then the hole 3 corresponding to the position of the frame is chosen, the tip of the pencil 4 is inserted into this hole, and finally the trace 11 of the frame is drawn by sliding the handle 2 in the direction of the arrow F, using the hook 5 for guidance (Figure 7). The paintbrush 6 will then be used for the necessary color finishing touches.

[0021] Drawing of the internal frames, on the other hand, is performed in the way represented in Figures 10 to 12, in which guidance for drawing of the trace 11, with the tip of the pencil 4 inserted into the hole 3 corresponding to the desired distance, is provided by the first hook-shaped end 5 of the paintbrush handle 2, this time laid simply on the side walls or ceiling of the room and made slide in the direction of the arrows F of the figures mentioned above.

[0022] The device of the invention also allows the circular traces 11 shown in Figure 13 to be drawn by pinning the handle 2 at a hole 30 thereof (with, e.g., a nail or similar), then inserting the tip of the pencil into the hole 31 or 32 corresponding to the desired distance of the trace 11 from the hole 30 acting as a pivot, and then rotating the handle 2 around this pivot in the direction of the arrow F, in the same way as a compass.

[0023] Modifications can be made to the invention, as described above and illustrated in the attached figures, in order to produce further variants.

[0024] Thus, for example, in place of the bristles 8, a palette knife or other instrument used in the construction, home improvement, DIY and similar sectors could be applied.

urement of the distance between said holes (3).

3. Device according to claim 1, **characterized in that** said distance between said holes (3) is 1 cm.

4. Device according to claim 1, **characterized in that** it comprises a palette knife, having a blade attached to said second end (7) of said body (2).

Claims

1. Device for drawing lines in general in the sectors of construction, home improvement, DIY, comprising a body (2) having an elongated shape, in which a plurality of mutually spaced through-holes (3) is provided, each suitable for accommodating the tip of a pencil (4) or similar, for drawing traces (11) of the edges of walls, doors, windows, etc.; said device comprising a first end (5) opposite a second end (7); said device being **characterized in that** it comprises a paintbrush, having bristles (8) attached to said second end (7) of said body (2); said first end (5) being hook-shaped; said body (2) constituting a handle.
2. Device according to claim 1, **characterized in that** said first end (5) represents the zero point for meas-

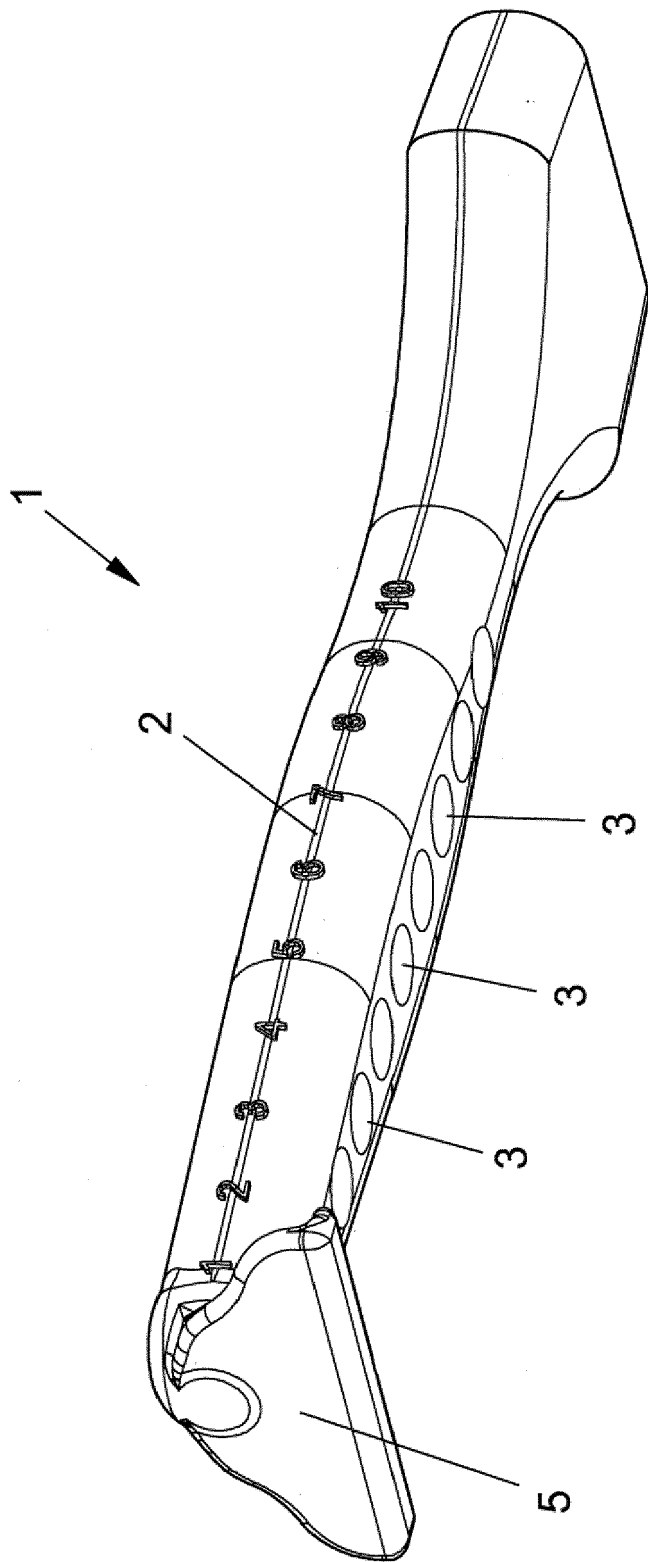


FIG.1

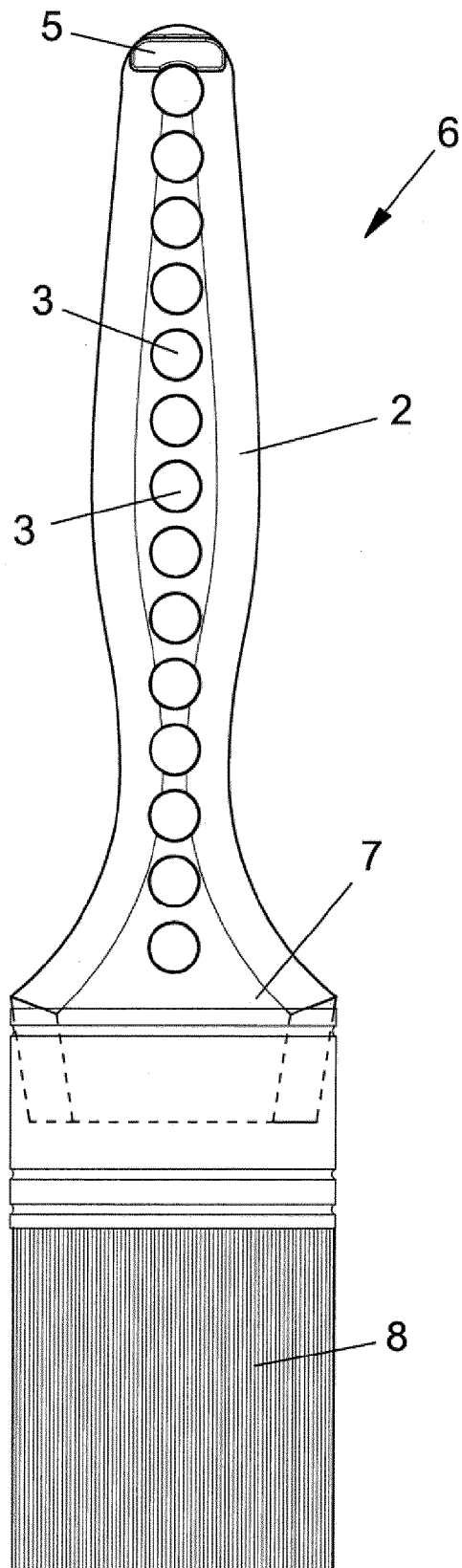


FIG.2

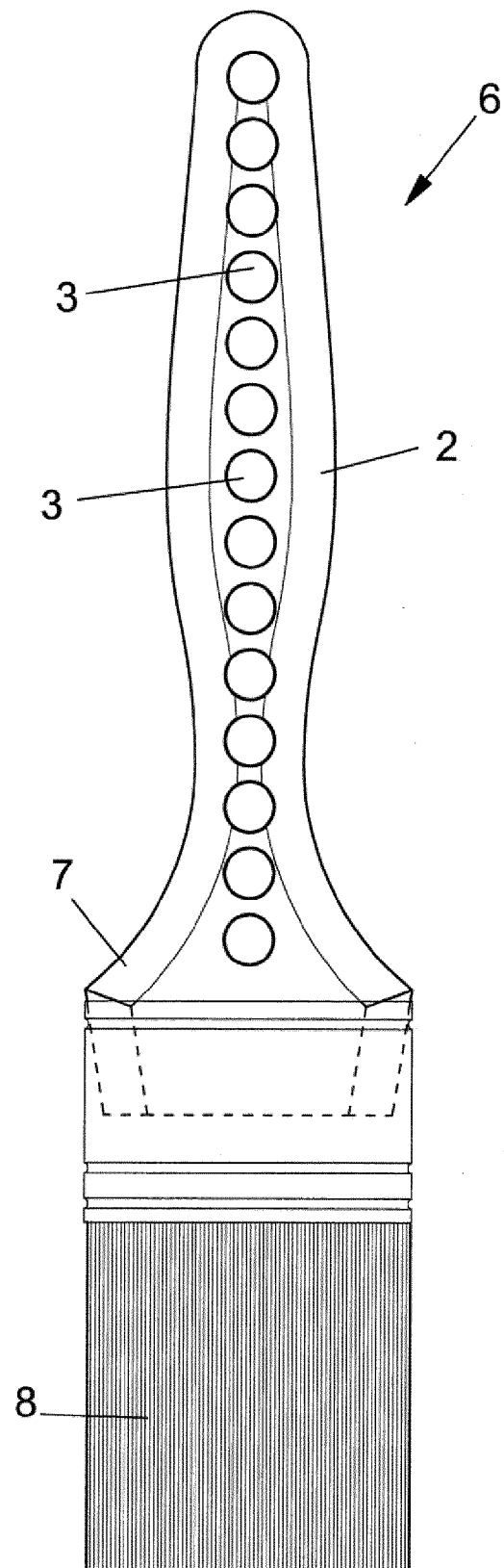


FIG.3

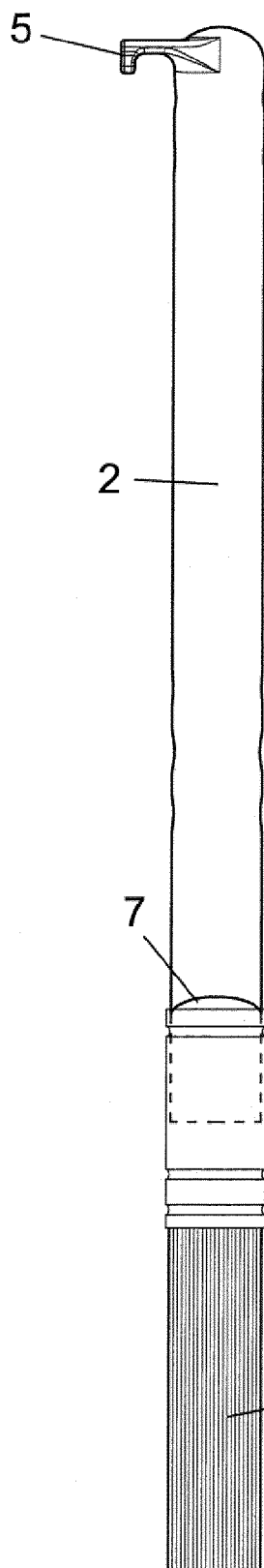


FIG.4

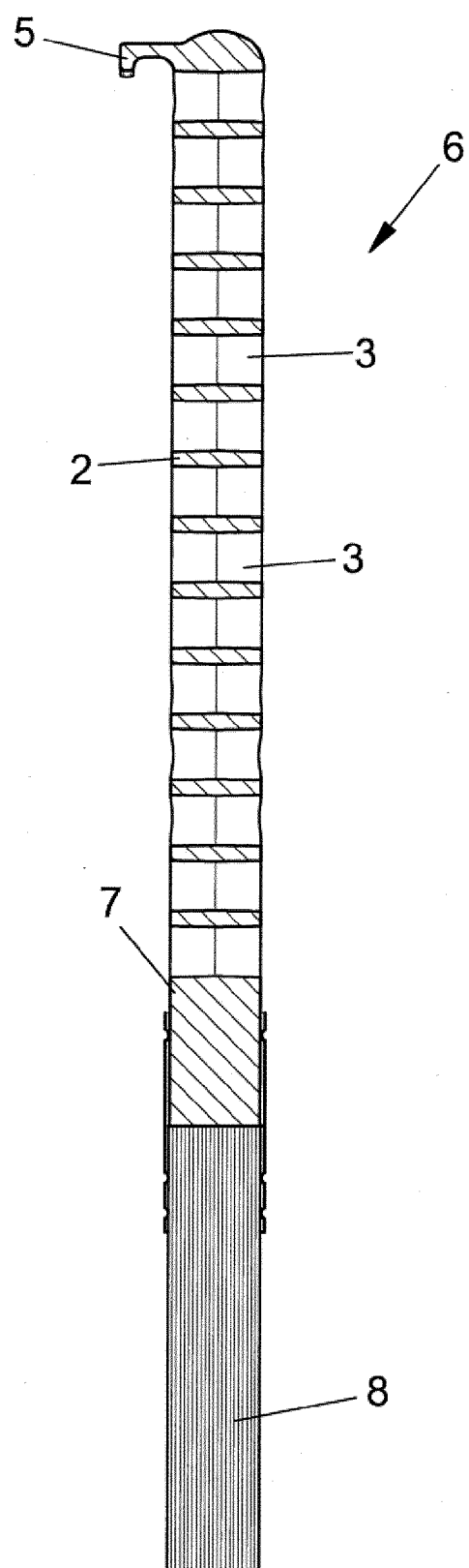


FIG.5

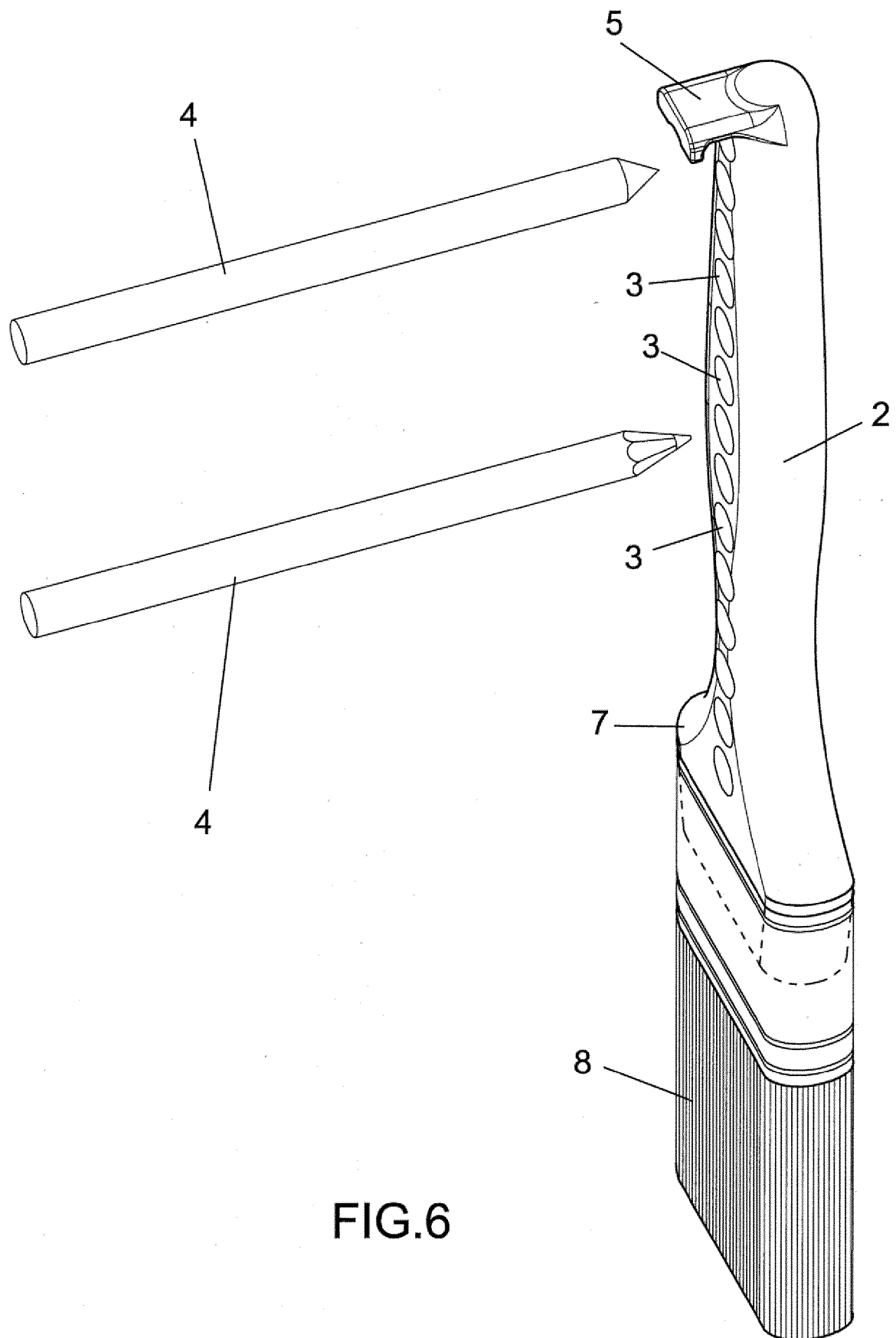
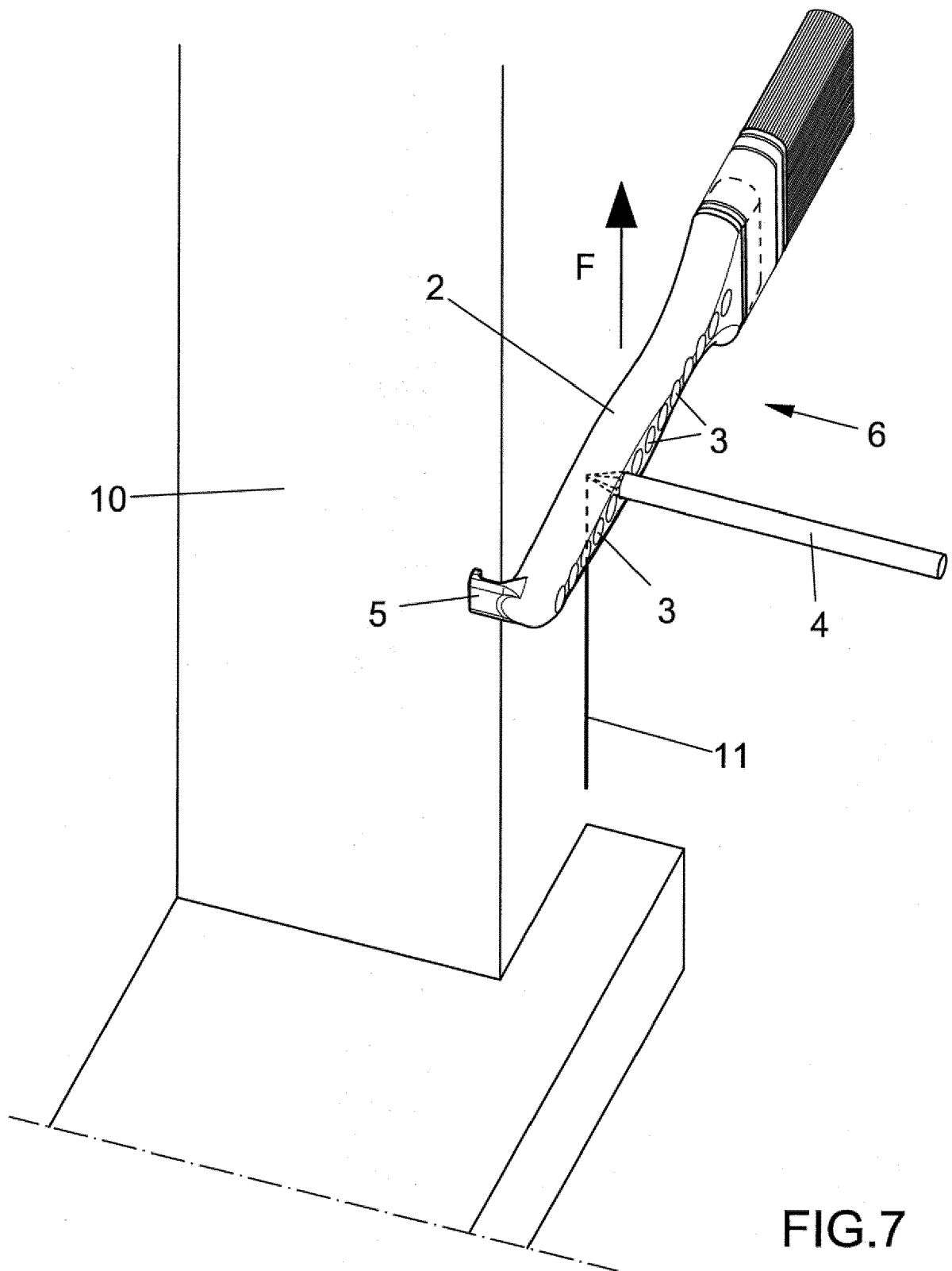


FIG.6



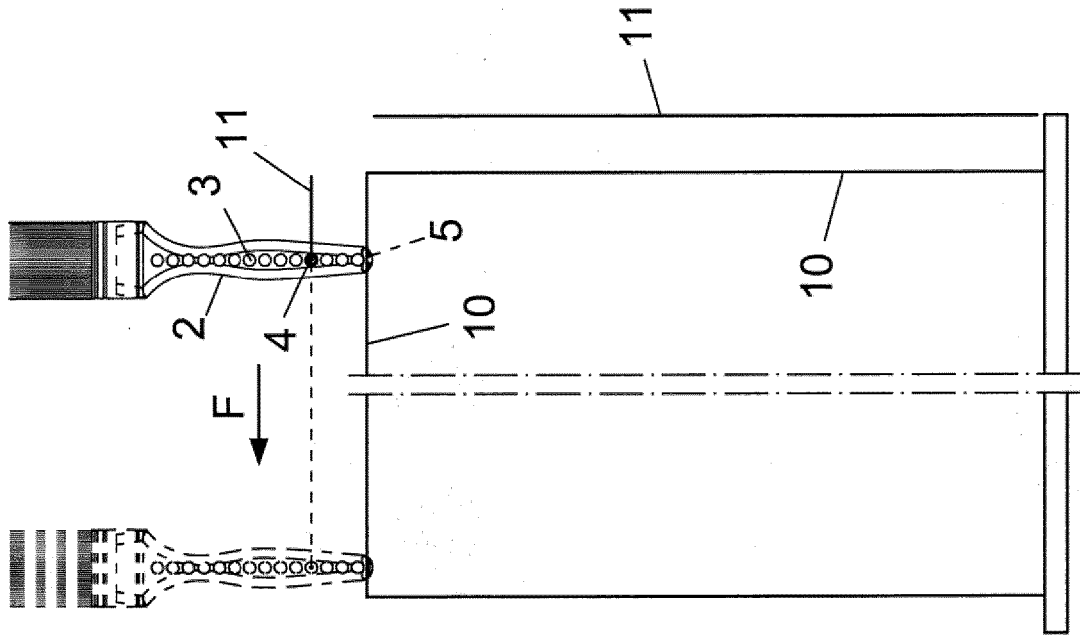


FIG. 9

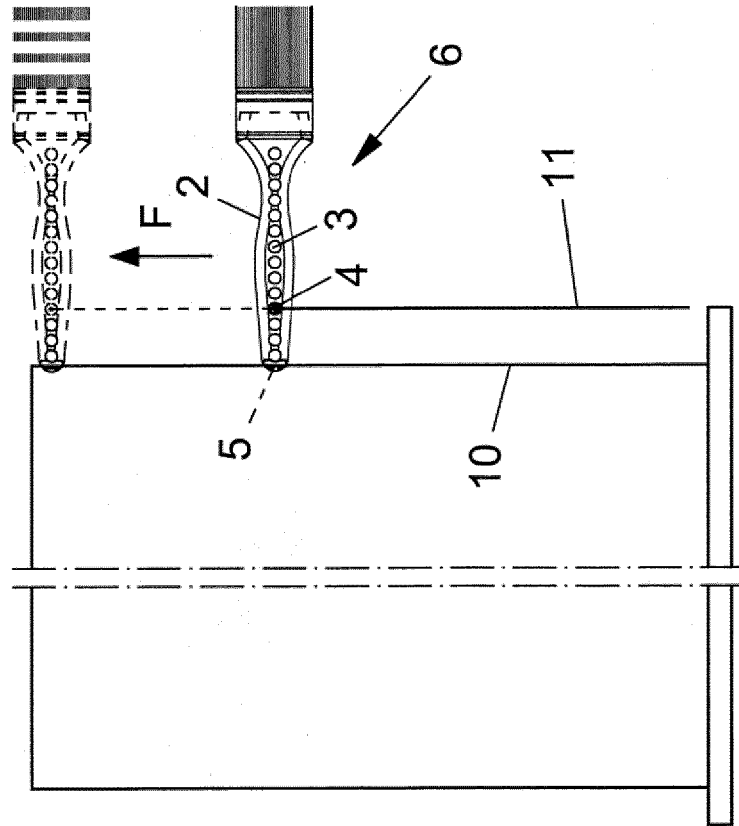


FIG. 8

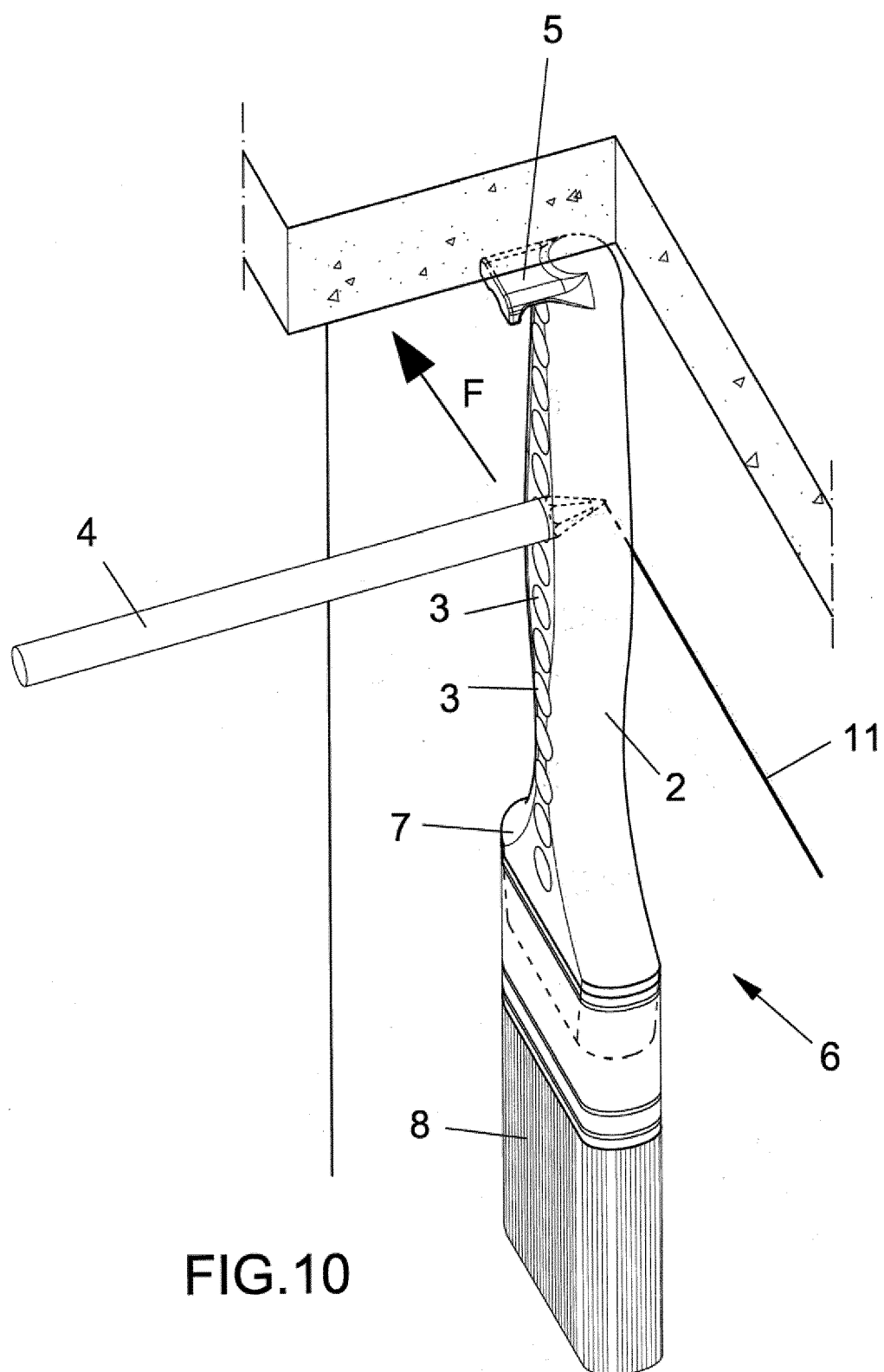


FIG.10

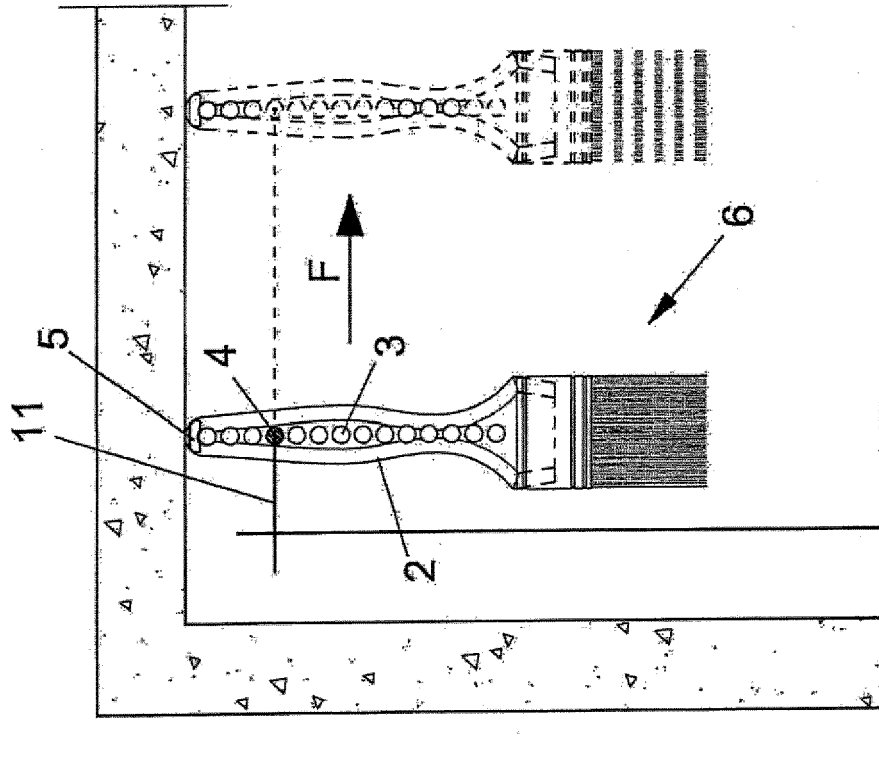


FIG.12

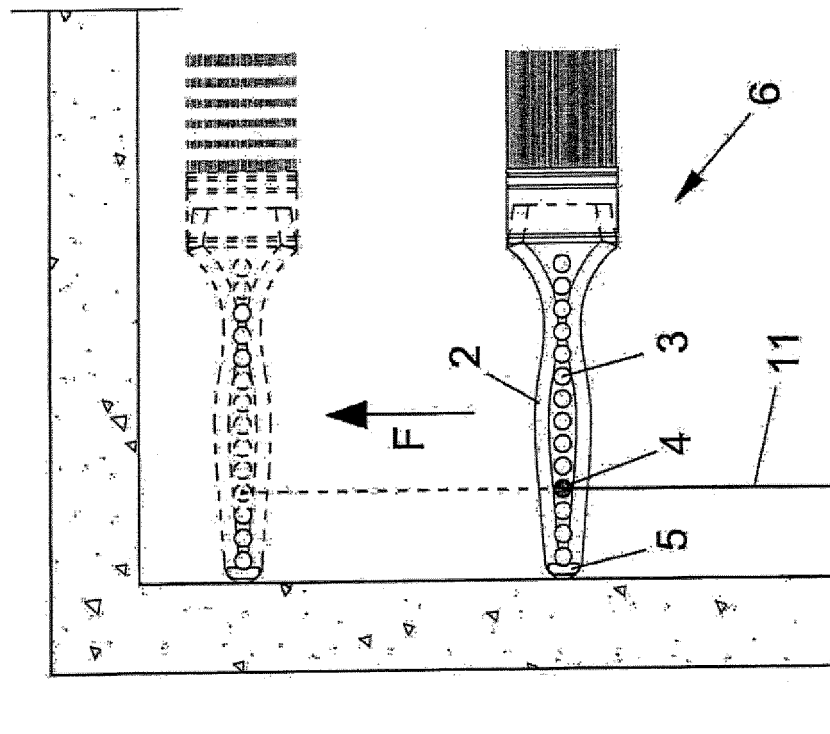


FIG.11

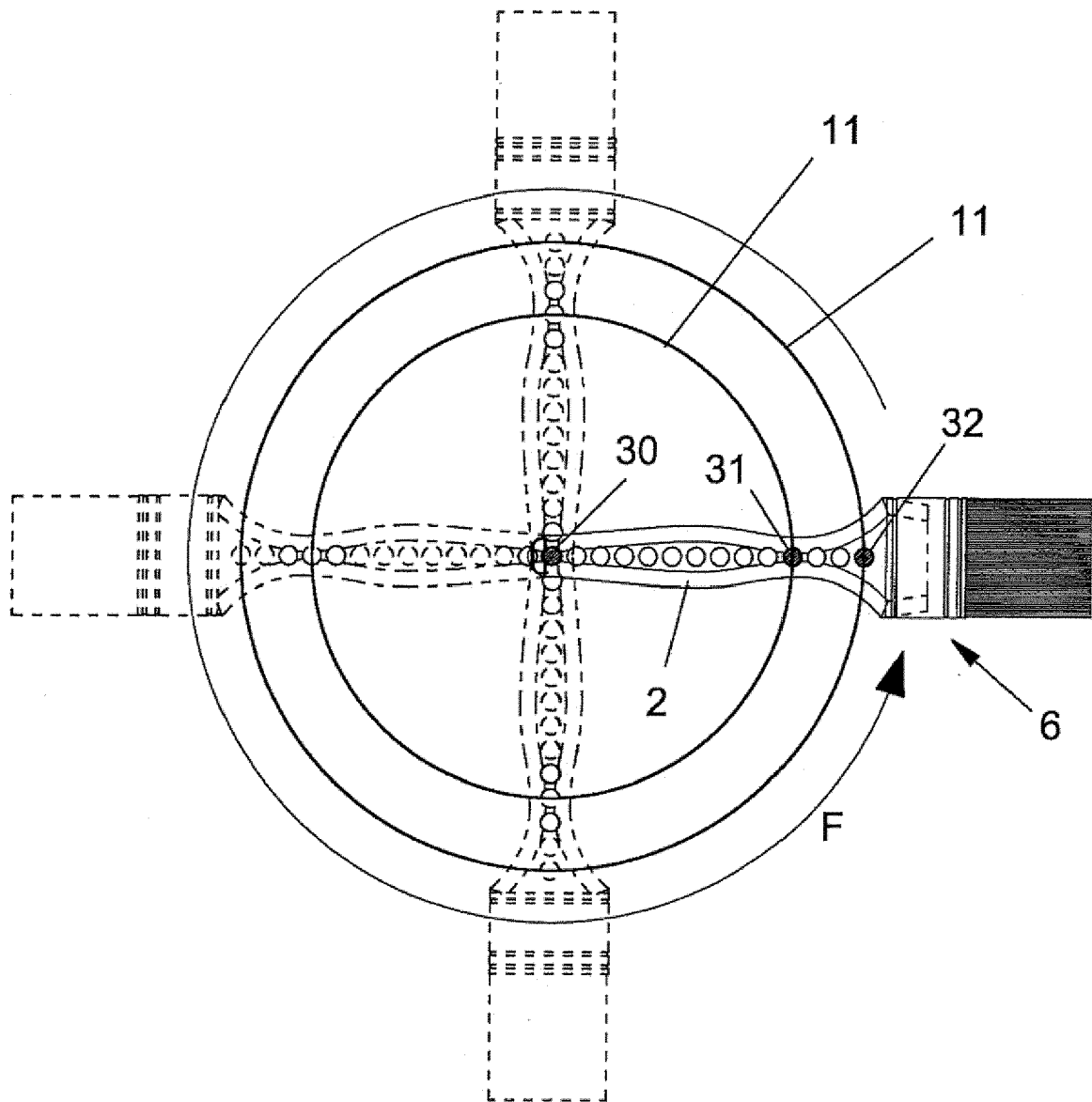


FIG.13

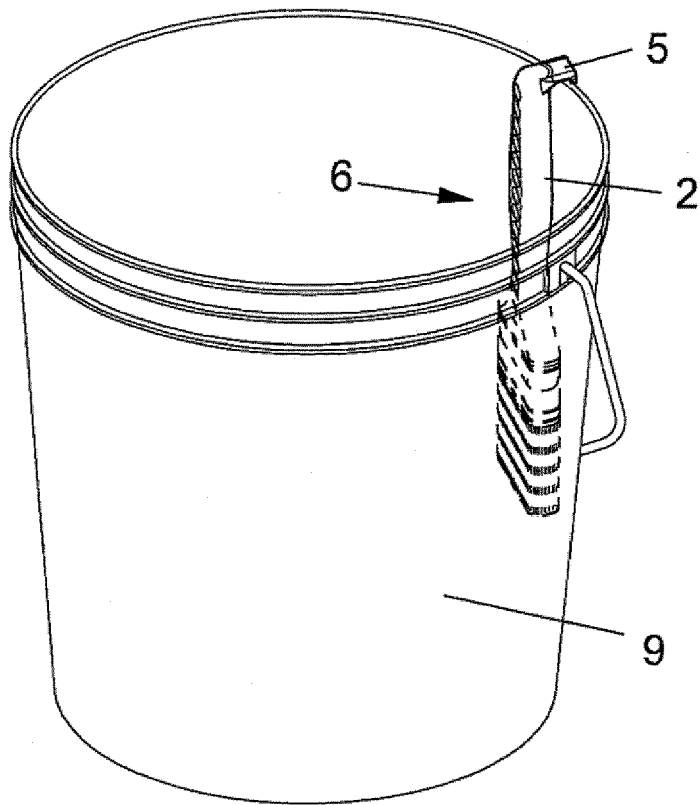


FIG. 14

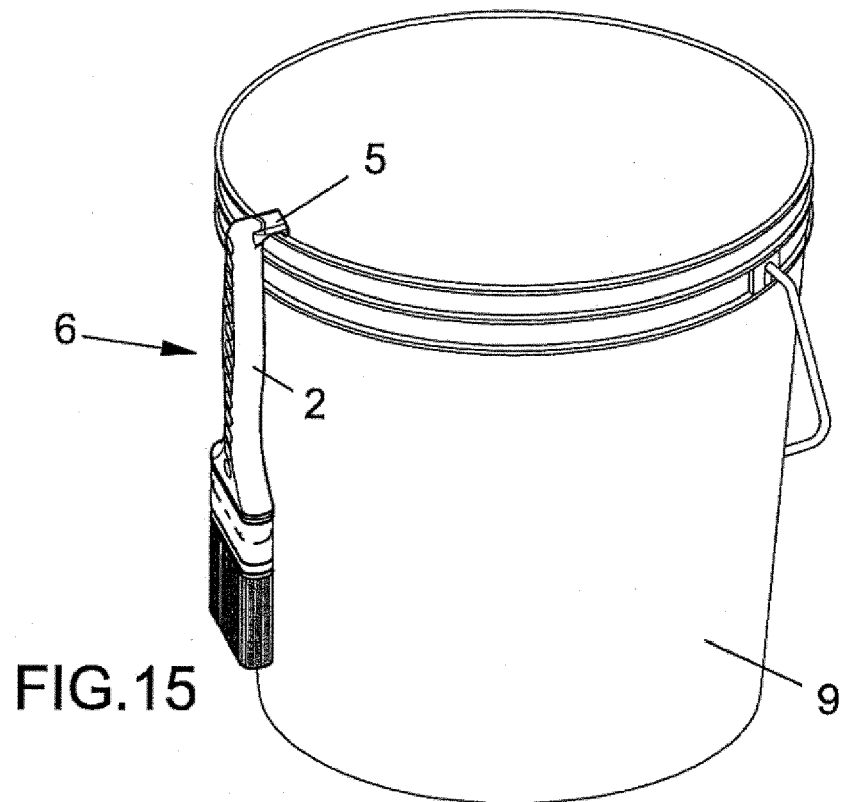


FIG. 15



EUROPEAN SEARCH REPORT

Application Number
EP 21 15 0539

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EPO FORM 1503 03.02 (P04C01)

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 4 656 744 A (DECKER) 14 April 1987 (1987-04-14) * figures *	1-4	INV. A46B17/02 B25H7/04 B43L7/00
A	----- WO 2006/008758 A1 (NAYAKI ET AL.) 26 January 2006 (2006-01-26) * page 4, paragraph 7 - page 6, paragraph 1; figures 1-4 *	1-4	
A	----- US 2009/038095 A1 (ZWICKE) 12 February 2009 (2009-02-12) * figures 1,2 *	1-4	

			TECHNICAL FIELDS SEARCHED (IPC)
			A46B B25H B43K B43L
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 1 June 2021	Examiner Raybould, Bruce
CATEGORY OF CITED DOCUMENTS 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		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	

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ON EUROPEAN PATENT APPLICATION NO.**

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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