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(54) **Device for painting tiling seams**

(57) The device comprises a support (1) for centering and retaining an seam coating paint applicator container (2) and a universal clamp (12-13) for the resilient holding of any domestic utensil handle (17), together

with an axial stop (11) for receiving the end of said handle, allowing the operator to carry out the task of coating the seams (15) in an upright position by means of the applicator disk (3) associated to the container (2).

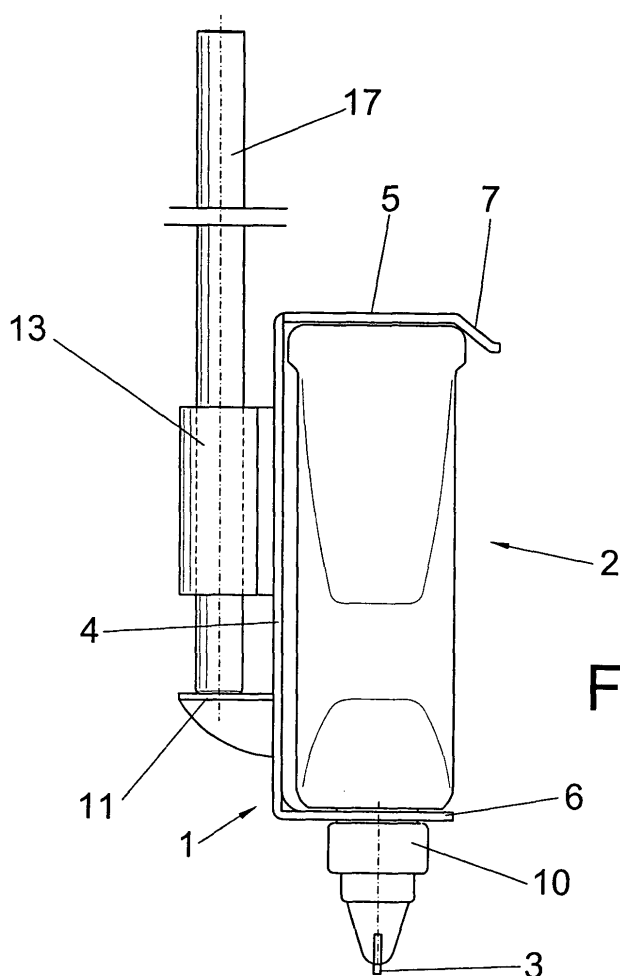


FIG. 1

Description

OBJECT OF THE INVENTION

[0001] The present invention refers to a device for painting the horizontal lines between adjacent tiles in pavings, especially indoor pavings.

BACKGROUND OF THE INVENTION

[0002] As is known, when carrying out indoor pavings with tiles of different materials arranged adjacent to one another, forming an array of rows and columns, it is normal for there to be left finish strips of the work material for the seams between adjacent floor tiles, which are normally intended to be covered with a coat of paint in order to obtain a better surface finish. For this reason, said coat of paint is normally applied by hand or with very elementary devices which, besides requiring a large amount of manual labor, are also characterized by the lack of efficiency of the task performed.

DESCRIPTION OF THE INVENTION

[0003] The present invention is intended for solving the aforementioned drawback, providing means, specifically mechanical means, so that the painting the seams between floor tiles may be carried out quickly and efficiently.

[0004] To achieve its objective, the present invention is embodied in a support very easily incorporated on the end of any handle of those conventionally used for domestic utensils and which, at the same time, is provided with the means for incorporating a container carrying a disc for applying the paint to the lines that are wanted to be covered. It is thus made possible to very easily couple the container carrying the painting means to the manual application support, and the operator has the possibility to work on the seams to be painted in an upright position which, besides significantly reducing physical fatigue and therefore outstandingly increasing the coating operator's output, also allows to work on the lines to be covered from a considerable distance, which allows obtaining a better quality in the surface finishes given the improved perspective view of the lines.

[0005] The support object of the present invention will preferably be a laminar-type support, for example made in a suitable plastic-type material, manufactured by injection or other methods, or in a stamped and/or bent plate material and provided with perforations for achieving the same objective.

DESCRIPTION OF THE DRAWINGS

[0006] Views of a preferred embodiment of the present invention are attached, as an illustrative but non-limiting example, for a better understanding thereof.

Figure 1 shows a side elevational view of a device according to the present invention coupled to a support handle.

Figure 2 shows a plan view of the device itself.

Figures 3 and 4 show each a perspective view of the support without the container carrying the paint medium and the handle.

Figures 5, 6, 7, 8 and 9 depict five detailed, and in some cases sectional, views of the support of the device object of the present invention.

Figure 10 shows a perspective view of the way to use the support.

PREFERRED EMBODIMENT OF THE INVENTION

[0007] As seen in the figures, the device object of the present invention comprises a support (1) carrying the container (2) for the coating paint for the seams between tiles, and a disk (3) for applying the paint, the assembly being coupled to a handle (17) for manually operating the device.

[0008] The support (1) will preferably be integrated in a single piece of a plastic material manufactured by injection, in which a central laminar portion (4) bears respectively noticeably 90°-rebated ends in the form of arms (5) and (6) intended for receiving by pressure the coating paint carrier container (2), such that the upper arm (5) has legs (7) and (8) for applying pressure and gripping the container (2), whereas the lower arm (6) is provided with a central hole (9) intended for allowing passage of the nozzle (10) of the container (2) carrying the coating paint. Thus the quick and easy coupling of the container (2) to the support (1) is made possible, as well as the disassembly thereof by simply overcoming the resilient action of the arms (7) and (8) when said container must be replaced with a new one.

[0009] On the side opposite to that of the two arms (5) and (6), the support (1) itself is provided with a stop (11) and a universal clamp having arms (12) and (13) with inner retention ridges (14) intended for receiving the end of any domestic utensil handle (17), therefore having a very broad field of application. Said handle will be introduced by pressure between the arms (12) and (13) of the resilient-type holding clamp, resting on the projection (11) of the support itself, allowing as a whole for an arrangement, as can be seen in figure 10, in which the application of the disk (3) to a seam (15) of those which are left defined in a paving of tiles (16), (16')... can be seen. The fact that the operator can use said device in an upright position allows greater comfort and therefore higher operator performance output and, likewise, greater accuracy in the task of coating the seams between tiles.

Claims

1. A device for painting tiling seams, characterized

by comprising a support (1) for centering and retaining an seam coating paint applicator container (2) and a universal clamp (12-13) for resiliently holding any domestic utensil handle (17), together with an axial stop (11) for receiving the end of said handle (17), allowing the operator to carry out the task of coating the seams in an upright position. 5

2. A device for painting tiling seams according to claim 1, **characterized in that** the support (1) has a lam- 10
inar structure with a central portion (4) provided on one side with two arms (5) and (6) for retaining and centering the coating paint carrier container (2) up-
side down, and on the opposite side with a resilient clamp (12-13) and an axial stop (11) for a handle 15
(17) for operating the device by hand.

3. A device for painting tiling seams according to pre-
vious claims, **characterized in that** the upper sup- 20
port arm (5) of the container (2) carrying the seam coating means has downwardly-tilted resilient end
legs (7) and (8) capable of applying pressure on the base of said upside down container (2).

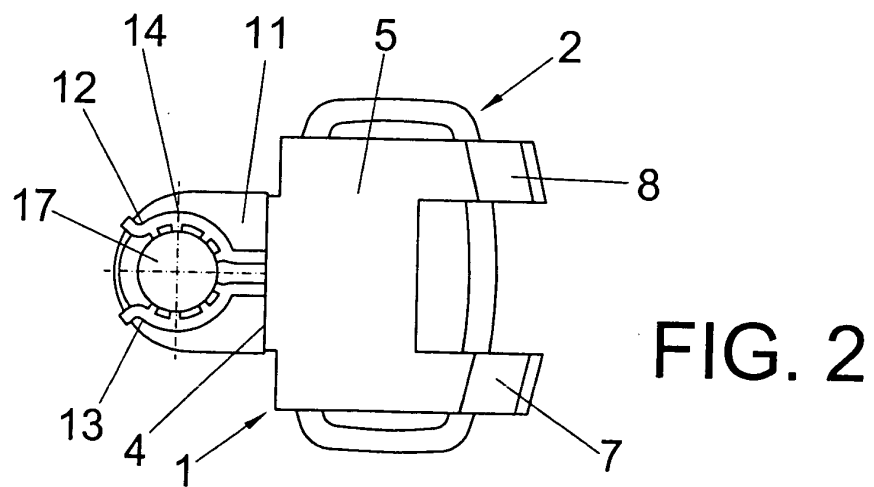
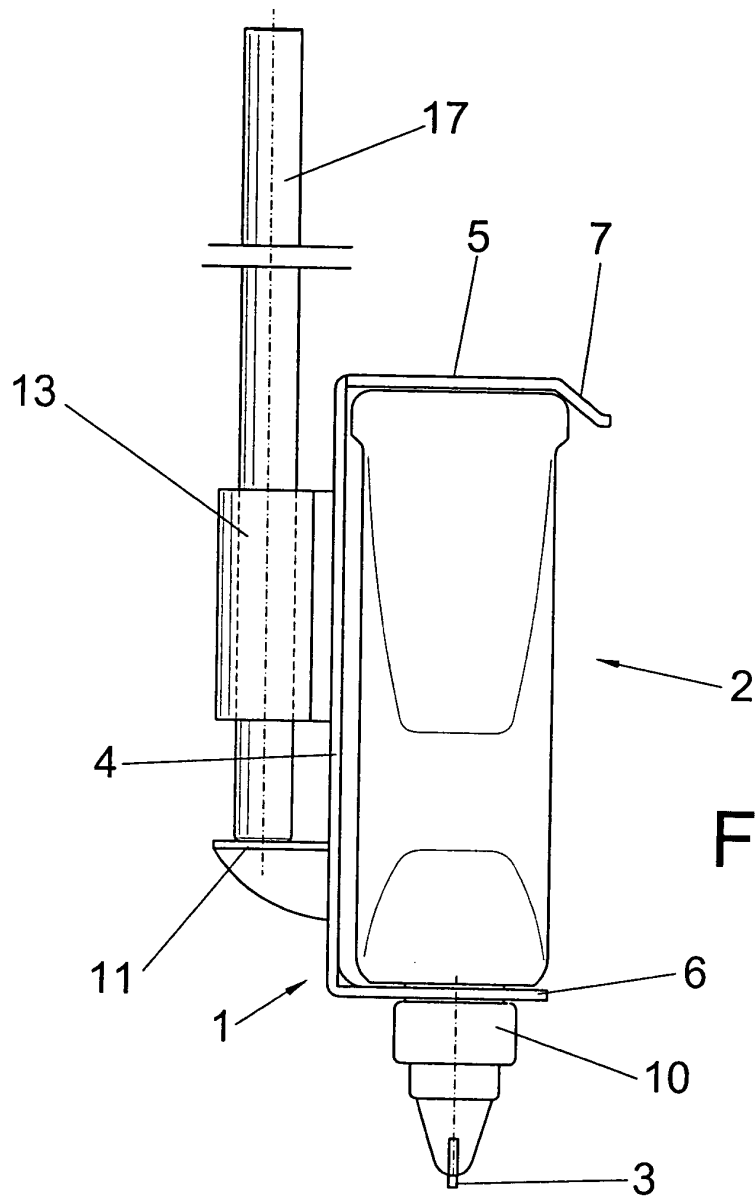
4. A device for painting tiling seams according to pre- 25
vious claims, **characterized in that** the opposite arm (6) for holding the coating means carrier con-
tainer (2) intended for the end-to-end receiving of the upper end of said container (2) has a central
opening (9) for the centering and passage of the 30
nozzle (10) of said container carrying the applicator disk (3).

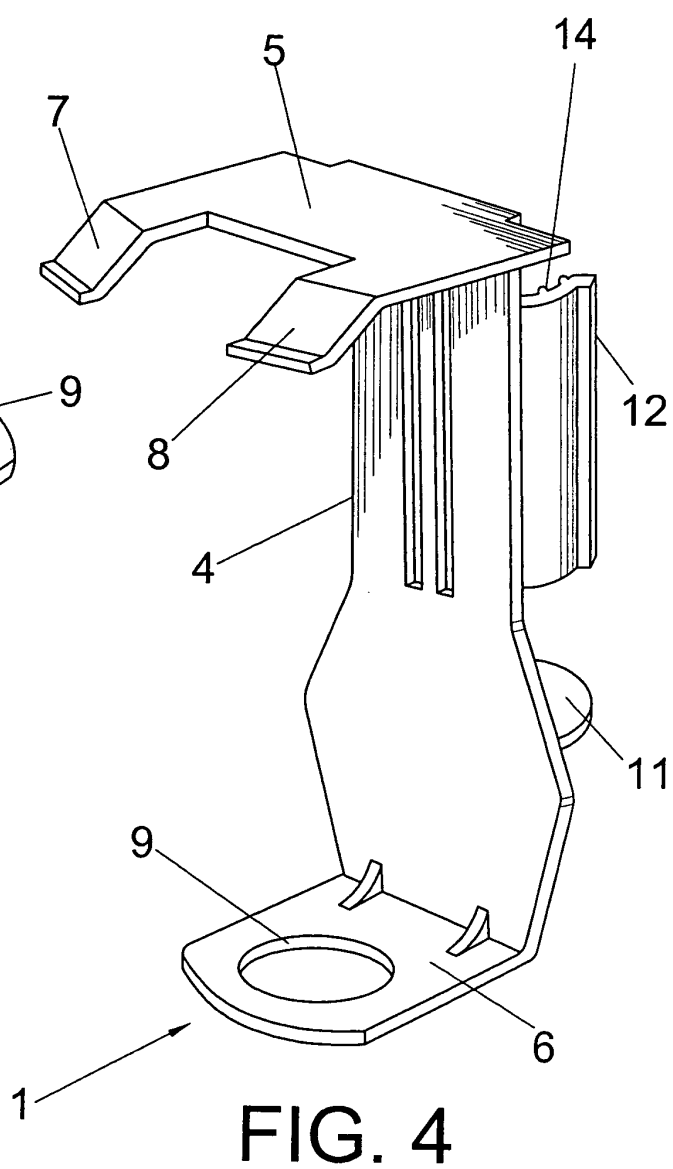
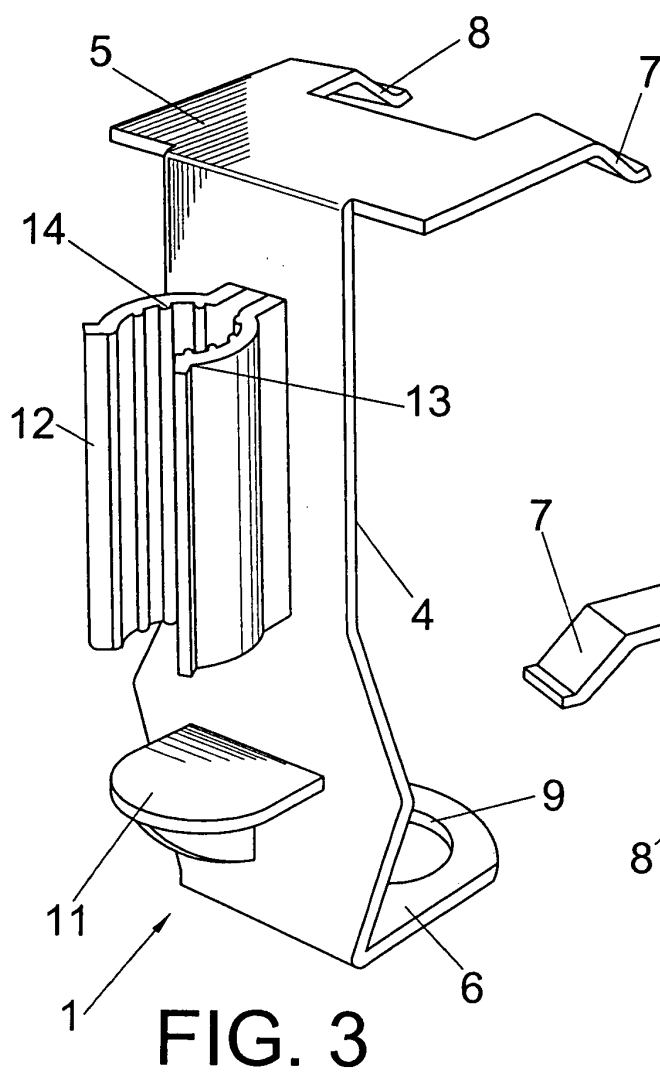
5. A device for painting tiling seams according to claim 1, **characterized in that** the clamp for the resilient 35
holding of the support handle (17) has two resilient and oppositely curved arms (12-13) opposing one
another, with inner ridges (14) for improving holding of the handle.

6. A device for painting tiling seams according to claim 1, **characterized in that** the support is provided 40
with a projecting stop (11) intended for receiving the axial action of the handle after being introduced in
the holding clamp (12-13). 45

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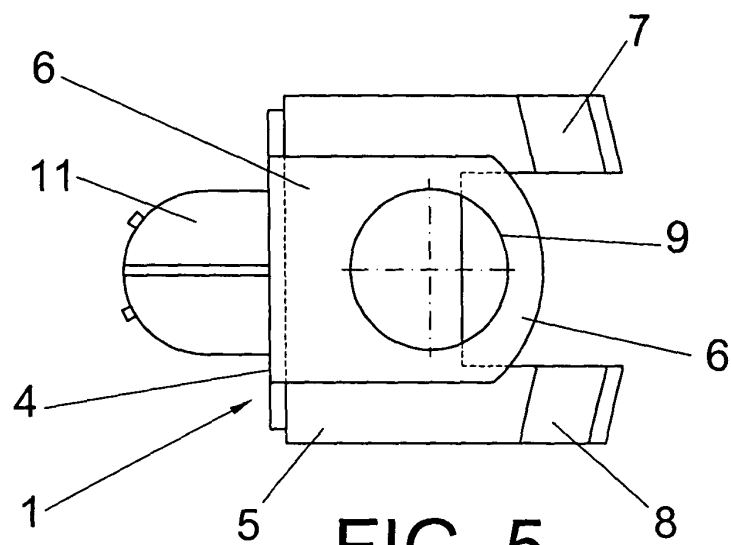


FIG. 5

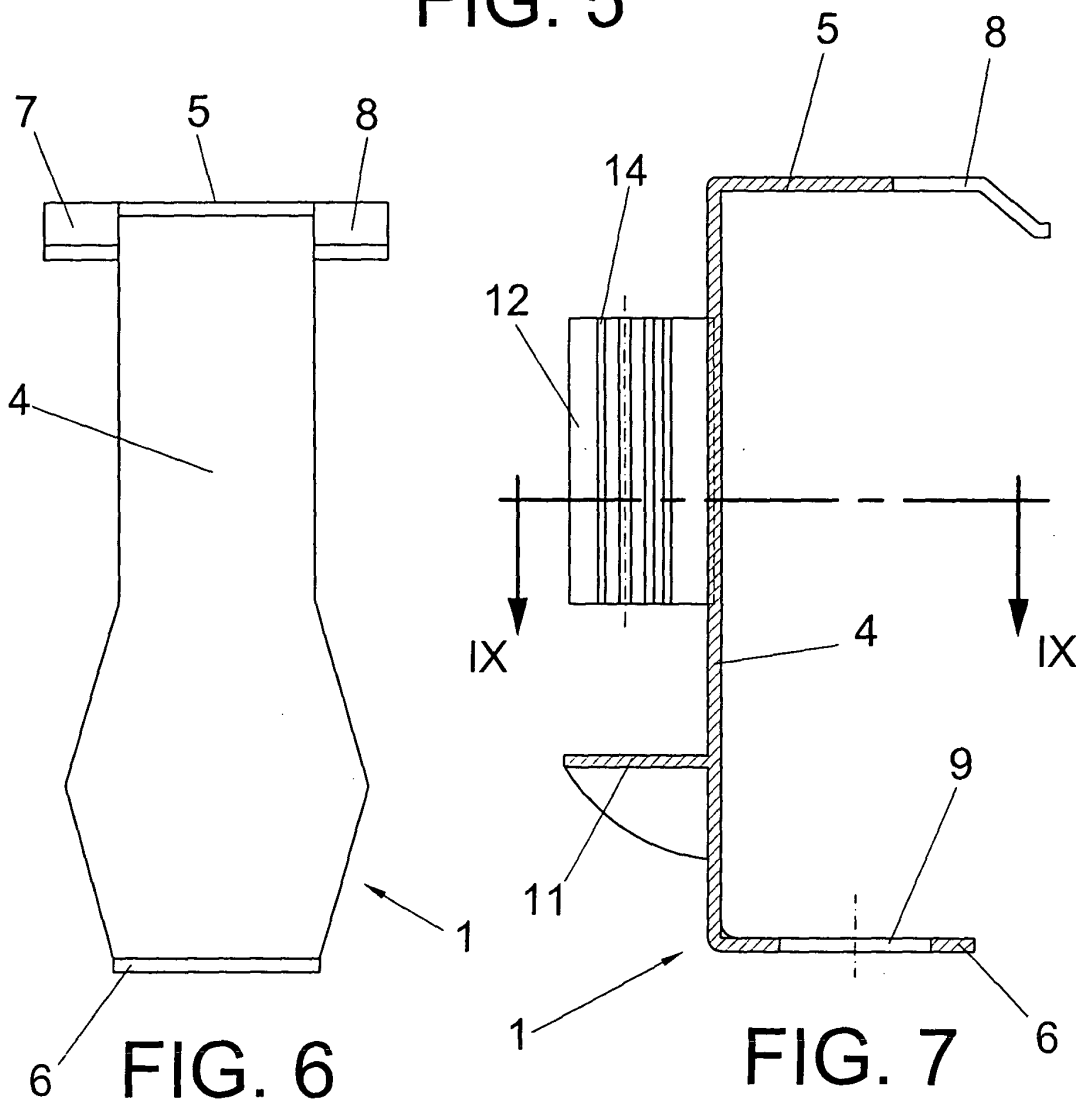


FIG. 6

FIG. 7

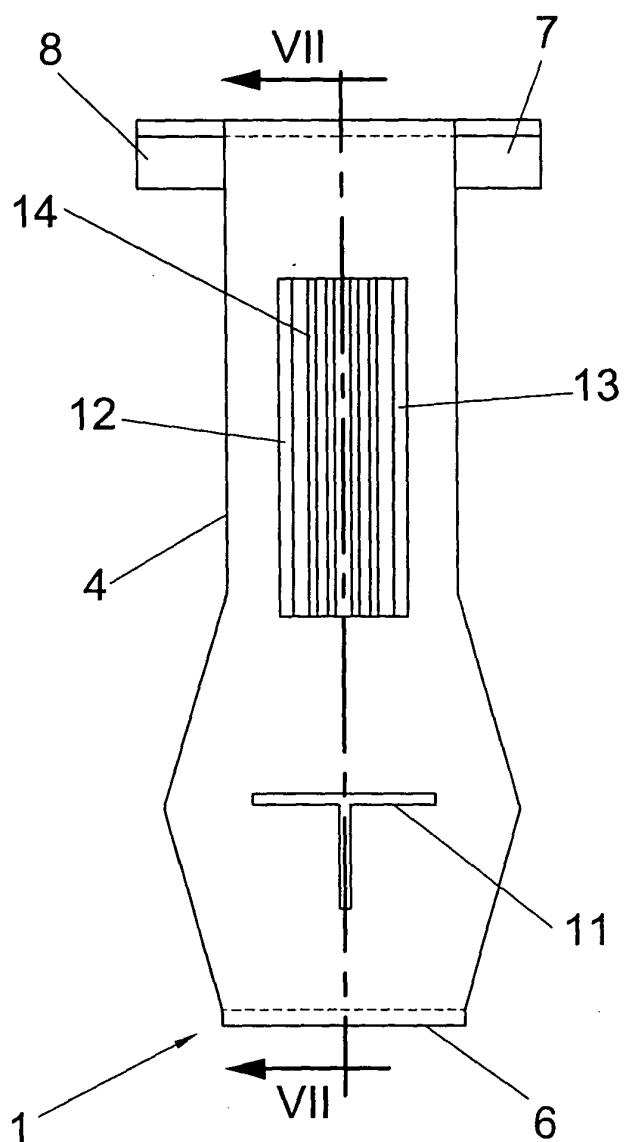


FIG. 8

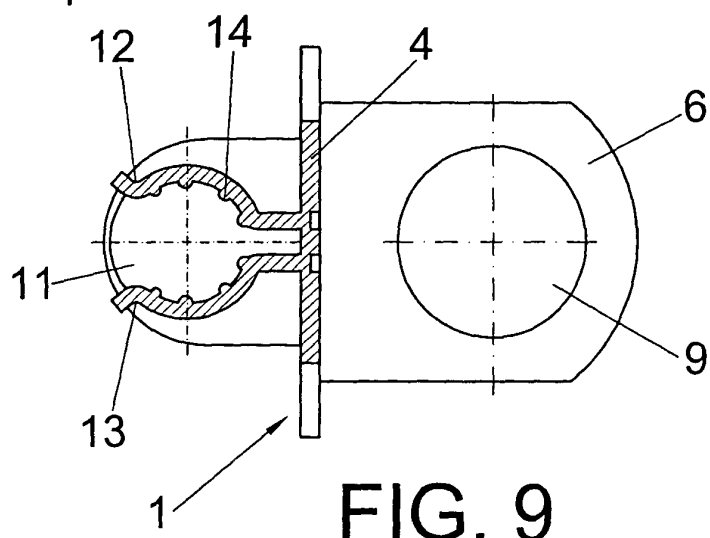


FIG. 9

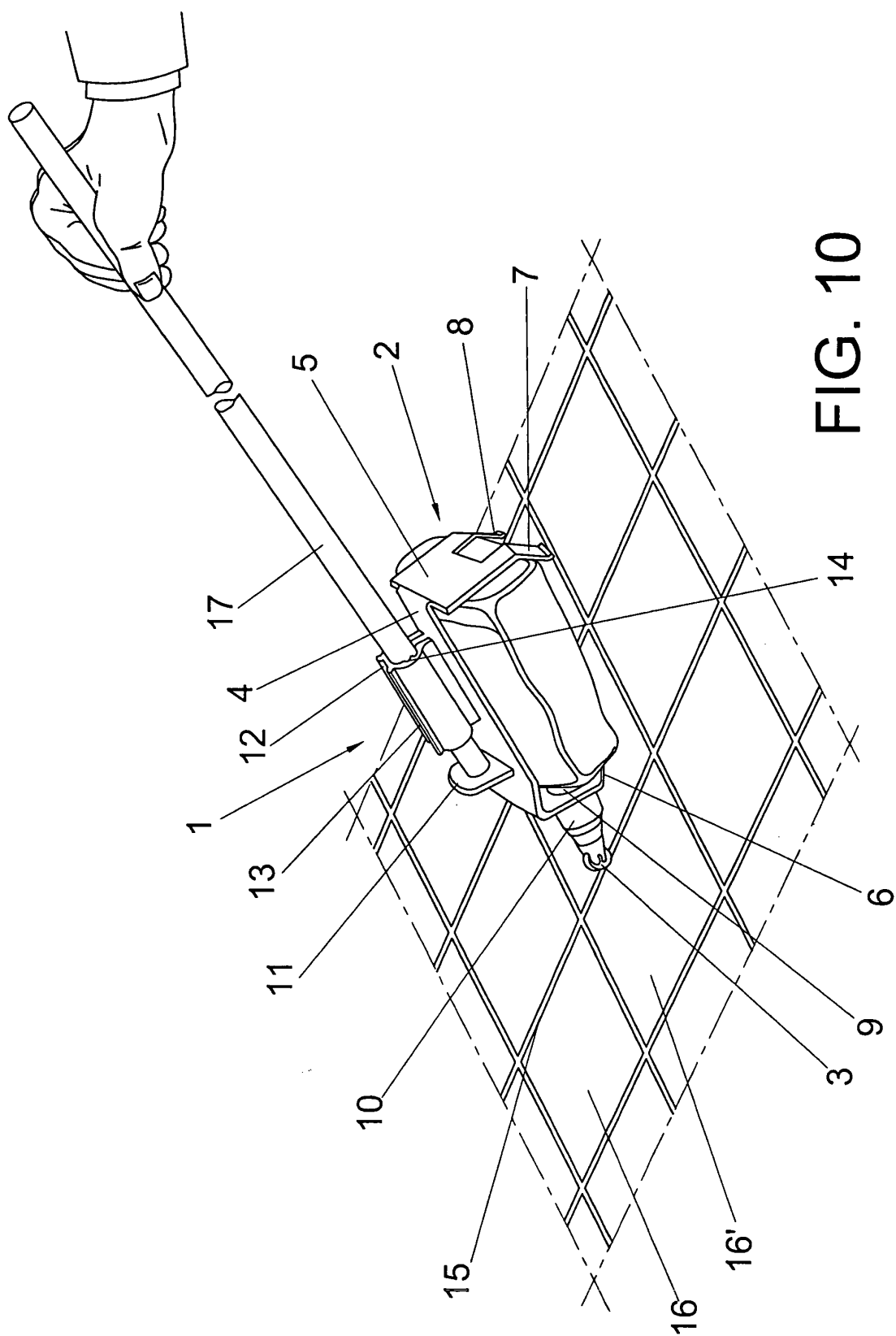


FIG. 10



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EUROPEAN SEARCH REPORT

Application Number
EP 03 38 0200

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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 February 2004	Examiner Barré, V
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 03 38 0200

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
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