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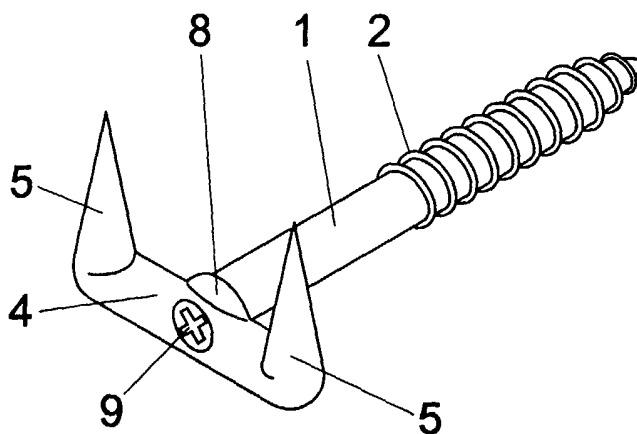
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(54) **Device for hanging pictures**

(57) The device used for the suspension of pictures or the like consists of a wall attachment part (1) made up of a threaded shaft (2) and a fore end (4) through which the hanging of the picture or the like is carried out;

this end (4) having a general U-shape whose vertical branches (5) are sharpened or pointed at their free end, so that said device is pinned or inserted onto the perimeter step of a back in-step, which certain types of pictures have.



**FIG.1**

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## Description

### PURPOSE OF THE INVENTION

[0001] This invention refers to a device by means of which it is possible to easily, simply and rapidly suspend a picture or similar onto a wall or vertical facing, the device being based on a wall attachment part, using screws, that has means that allow the direct suspension of the picture to be carried out, or with the interposition of an additional piece attached to the actual picture.

### BACKGROUND OF THE INVENTION

[0002] At present, the manner of suspending pictures on facings is based on the use of two separate parts, one of them, called a picture hook that is fixed to the corresponding facing, and another called a hanger formed by a ring that, fixed to the corresponding frame of the picture allows the introduction into it of the part of the hanger corresponding to the wall hook, with the picture remaining suspended in this way.

[0003] This system, that is the most usual and known, requires on one hand the fixing of a part to the frame of the picture, the part being usually attached using screws, and on the other, the fixing of another part to the facing, that is also usually carried out by screwing into a rawl plug placed for this purpose in said facing.

[0004] Other systems, that are even more complex, exist although they don't require the insertion of rawl plugs for holding the wall hook in the facing, but rather by using a simple steel pin the hanger part remains joined to the pin, allowing the suspension of the picture, this latter always has the ring fixed to the picture frame. This solution is only and exclusively intended for pictures of small weight, since if the latter is high the system is undoubtedly invalid.

### DESCRIPTION OF THE INVENTION

[0005] The device that is proposed has been envisaged to allow the suspension of pictures or similar onto a facing to be carried out, providing greater stability of the suspended item and even greater ease when suspending or hanging the picture or similar item concerned.

[0006] More specifically, the invention device is based on the use of a wall attachment element, that is positioned with screws, and that has at its external end means that can either directly form parts for the suspension of the picture, by simple pinning or nailing of those means into the in-step which many pictures have for this purpose, or in another case those means are intended to form a hooking element for a second part attached to the actual picture. Furthermore, in another variant of the embodiment the wall attachment part is fitted with a removable head, which carries the parts for joining to another part fixed to the back of the picture or item to be

suspended, in this latter case those means being formed by tongue and groove joint elements.

[0007] The wall attachment part is formed by a shaft with a threaded section, for attachment to the facing, while at the opposite end it finishes in a cross with its ends perpendicularly bent to form a "U" shape in which the side branches have their ends pointed, permitting that these latter can be nailed lightly onto a step made for this purpose in the back side of the picture, thus remaining perfectly suspended.

[0008] In a variant of the embodiment, the aforementioned "U" shape has horizontal sections between the traverse branch and the vertical pointed branches, allowing a fixed separation between the picture and the facing to be established, for those cases in which this is required.

[0009] In the case that the picture or item to be suspended doesn't have the stepped part for pinning the pointed parts of the wall attachment part, then the device is supplemented with an auxiliary part onto which the pointed branches of the wall attachment part precisely hooks, so that said auxiliary part will have two holes or openings, for hooking the two pointed branches.

[0010] In another alternative of the embodiment, the threaded shaft for attachment to the facing finishes at its front end in a traverse branch with a single pointed section, traverse and central to it, that will be supplemented with another part or shaft for attachment to the picture, and that also finishes at its front end in another traverse branch in this case having a hole, so that the pointed section of the part for attachment to the facing lodges in the hole of the traverse and horizontal branch of the part attached to the picture; all of this so that when both parts are fixed, one to the wall and another to the picture, with their horizontal branches, on hanging the picture it will always remain horizontal although its centre of gravity stays slightly displaced with respect to the hole and to the pointed part.

[0011] In another variant of the embodiment, the wall attachment part has its end fitted with a threaded shaft in which a head fitted with means of joining by tongue and groove onto a metal sheet or piece conveniently attached to the back of the picture or item to be suspended, is interchangeably mounted. The metal strip will have openings in which twin arms, from the interchangeable head previously referred to, are housed.

[0012] It is also necessary to emphasise the fact that both the wall attachment parts in the case of branches that finish with a pointed shape, and in the auxiliary parts that are required in certain cases for their hooking, will have cross in-cuts or slots so that, using an appropriate implement the attachment by screwing of the part in question may be carried out; also having, in the inter-section part between the "U" shape corresponding to the pointed branches and the shaft to be screwed or attached to the wall, widened areas or narrowings that set a limit-stop of maximum penetration by the part in the facing, and thus leaving a definite separation between

the "U" shape of that wall attachment part and the actual facing to allow the hanging by suspension of the picture properly speaking.

## DESCRIPTION OF THE DRAWINGS

**[0013]** To supplement this description and with the aim of leading to a better understanding of the characteristics of the invention, in accordance with a preferred example of its practical embodiment, as an integral part of this description it is accompanied by a set of drawings where in an illustrative and non-limiting way, the following have been represented:

Figure 1. - Shows a general perspective representation of the wall attachment part carried out in agreement with the purpose of the invention.

Figure 2. - Shows a side elevation view of the practical application of the device that makes up the part shown in the previous figure, that appears attached to the wall and in turn holding a picture by pinning of the corresponding ends to the pointed branches of that wall attachment part into a step formed for this purpose in the corresponding picture or part to be suspended.

Figure 3. - Shows a perspective, like the previous figure, of a variant of the embodiment of said wall attachment part.

Figure 4. - Shows a practical application like that of Figure 2, in this case according to the wall attachment part shown in the previous figure.

Figure 5. - Shows a perspective view of the wall attachment part that is the purpose of the invention, supplemented by an auxiliary part that must be attached with screws onto the corresponding picture to effect its suspension.

Figure 6. - Shows a perspective view of the two parts, one of attachment to the facing and the other of attachment to the picture, in another variant of embodiment of the device.

Figure 7. - Shows, finally, an exploded view of the different parts that make up the device for the suspension of pictures or similar items, carried out according to an alternative of its embodiment.

## PREFERABLE EMBODIMENT OF THE INVENTION

**[0014]** In view of the figures described and especially in view of Figure 1, it can be seen how the device of the invention consists of a wall attachment part (1) with a threaded section (2) for attaching to the corresponding wall (3), as is shown in Figure 2, while the near end of

the wall attachment unit (1) has a traverse branch (4) bent at its ends forming pointed and vertical branches (5), so that the suspension of a picture (6) can be carried out in the way depicted in Figure 2, that is that once the part (1) that makes up the device is attached to the wall (3), it will be necessary only to place the picture (6) and the pointed ends of the branches (5) to be pinned into the step (7) formed from an in-step which the back part of the picture (6) has for this purpose.

**[0015]** In a variant of the embodiment, the part (1) has horizontal sections (4') between the traverse branch and the vertical pointed branches (5) forming a separating medium between the wall and the corresponding picture (6') to be suspended, as is shown in Figure 4, so that in this case the picture in question has a step or in-step (7') of greater depth than the in-step (7) shown in Figure 2.

**[0016]** The wall attachment part (1) referred to, has a narrowing (8) in the intersection between its shaft and the traverse branch (4) forming a limit-stop of maximum penetration of said part (1) into the facing (3), in order to leave a space so that the branches (5) stay slightly separated from the facing and that the suspension of the picture or item to be hung may be carried out.

**[0017]** Likewise, in the central area of the traverse branch (4) an cross in-cut or a simple slot has been planned so that by using an appropriate implement the clamping procedure and corresponding screwing of the part (1) onto the facing or wall (3) can be carried out.

**[0018]** In a variant of the embodiment to that shown in Figures 1 and 2, as is shown in Figure 5, the wall attachment (1) is supplemented by an auxiliary part (10) for its attachment at the back part of the picture, when this lacks the step at the back. That auxiliary part (10) has the threaded shaft (11) and a traverse branch (4'), this being fitted with two holes or accesses (11') for the hooking of the pointed branches (5) of the part (1).

**[0019]** In another variant of the embodiment different from that shown in the figures 1, 2 and 5, the traverse branch (4) of the shaft (1) with its corresponding threaded section (2), instead of having two pointed branches, as in the previous cases, will have a single pointed and central branch (5') intended to be housed in a hole (11') corresponding to the traverse branch (4') of the auxiliary part (10) with its threaded section (11) for attachment to the picture; all so that if this auxiliary part (10) is attached by screwing onto the back part of the picture, its traverse branch (4') remaining horizontally positioned, if the part (1) is attached to the facing, with its branch (4) also horizontally positioned, the introduction of the pointed branch (5') of said part (1) in the hole (11') of the auxiliary part allows the picture to be suspended perfectly horizontally, even in the case that a correct coincidence of the centre of gravity with regard to the hole and to the pointed branch doesn't exist. This variant of the embodiment described is that shown in Figure 6.

**[0020]** In another variant of the embodiment, shown in Figure 7, the wall attachment part (1') has its corre-

sponding section threaded (2') for attachment to the facing, since at its fore end it has a threaded axial appendix (12) onto which a head (13) is interchangeably fitted which has a slot or similar (14), so that by using an appropriate implement the attachment with screws of said head (13) onto the threaded appendix (12) of the wall attachment part (1') can be carried out. Said head (13) has a pair of arms (15) lengthened and having a thickened area (16); arms (15) intended to be lodged in corresponding holes (17) formed for this purpose in a piece or metal strip (18) conveniently attached onto the back part of the picture or item to be suspended, so that this, being the bearer of that piece or metal strip (18) with the holes (17), can be hung simply by inserting the arms (16) of the head (13) into the holes (17) referred to, prior to attachment of the part (1') to the facing or wall.

**[0021]** The head (13) is interchangeable so that it always adapts to the width or separation between the holes (17), with the particularity that the narrowings (16) of the arms (15) corresponding to the head (13) allow a better securing between said head (13) and the metal strip or piece (18).

#### Claims

1. Device for suspension of pictures or similar that intended to allow the rapid and easy hanging of a picture or similar whose back part may or may not have a in-step forming a step, **characterised in that** it consists of a wall attachment part made up of a shaft with threaded shaft and a fore end fitted with means through which the hanging of the corresponding picture or item concerned is carried out.

2. Device for suspension of pictures or the like, according to 1<sup>st</sup>. claim, **characterised in** the wall attachment part has at its near end a traverse branch from which two perpendicular branches extend, forming a "U" shape where said pointed branches are capable of being lightly pinned onto the step of a back in-step which certain types of pictures have.

3. Device for suspension of pictures or the like, according to 2<sup>nd</sup>. claim. **Characterised in that** between the traverse branch of the near end of the wall attachment part and the pointed branches, horizontal branches have been planned forming a separating medium between the facing and the actual picture or item to be suspended.

4. Device for suspension of pictures or the like, according to previous claims, **characterised in that** the wall attachment part is supplemented by an auxiliary part fitted with a shaft attachable to the back of the picture or item to be suspended, said auxiliary part having a traverse branch with two holes or accesses for hooking the pointed branches of the wall

attachment part, for suspension or hanging of said picture.

5. Device for suspension of pictures or the like, according to claim 1<sup>a</sup>, **characterised in that** the wall attachment part has at its fore end a traverse branch from which extends a pointed branch capable of being held in a hole formed for this purpose in another traverse branch of a second auxiliary attachment part on the corresponding picture to be hung, and whose wall attachment and picture attachment parts have the respective attachment section threaded.

6. Device for suspension of pictures or the like, according to previous claims, **characterised in that** in-cuts are planned both in the wall attachment part at the centre of its transverse branch, and at the furthest side of the auxiliary part traverse branch, to facilitate screwing and attachment of the corresponding part onto the facing or onto the picture, using an appropriate implement that can be positioned in said in-cut.

7. Device for suspension of pictures or the like, according to 1<sup>st</sup>. claim, **characterised in that** the wall attachment part has at its fore end an axial threaded appendix, for the interchangeable mounting of a head bearing arms for anchoring into respective holes established for this purpose in a metal strip or piece attached to the back of the picture or item to be suspended.

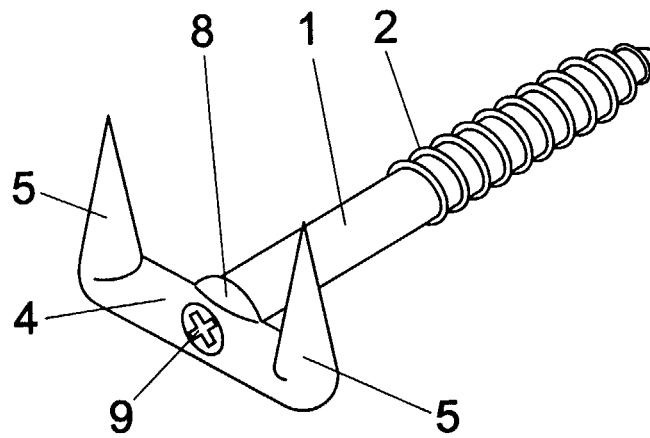


FIG.1

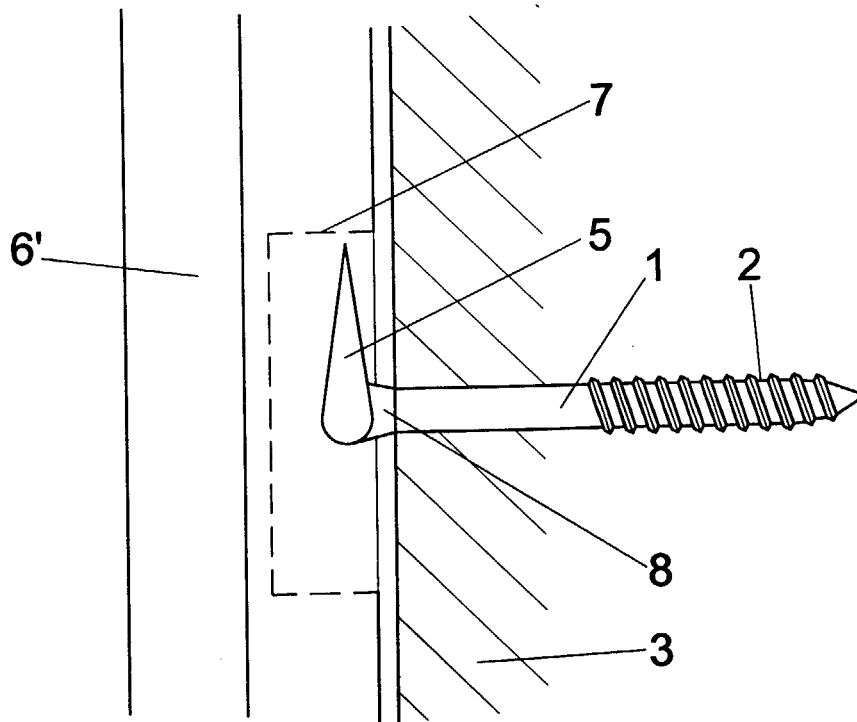
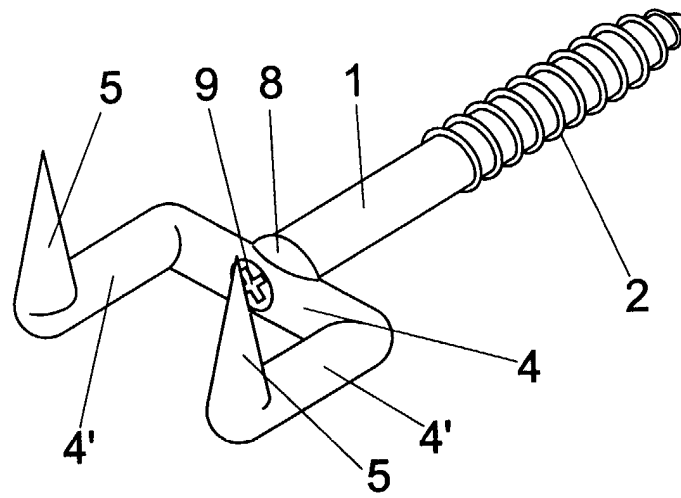
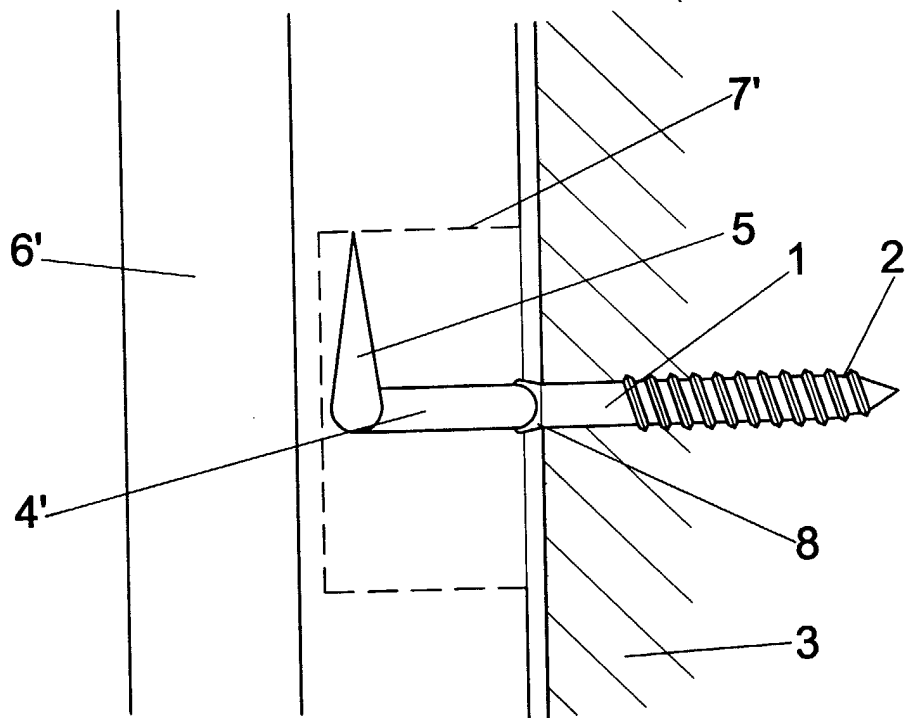


FIG.2



**FIG.3**



**FIG.4**

