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E. H. VAN SCHOOR ET AL

2,483,114

HANGER DEVICE

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Fig. 1

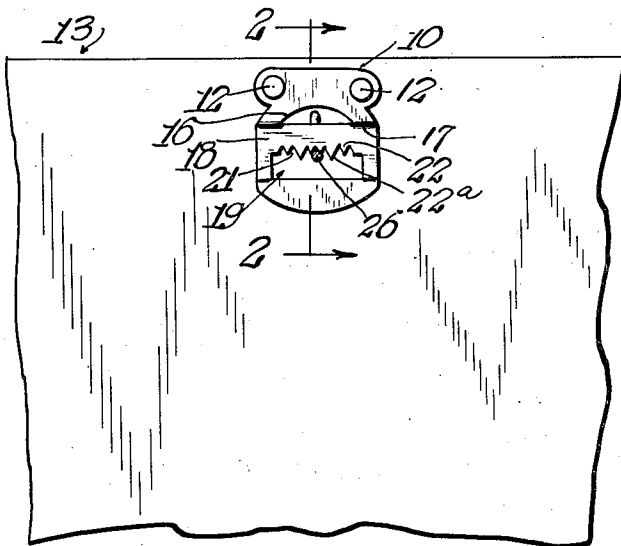


Fig. 2

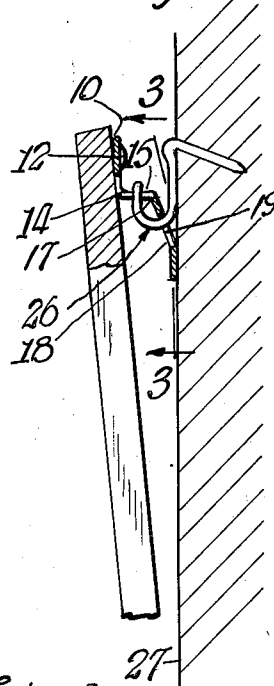


Fig. 4.

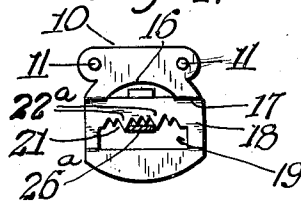


Fig. 3.

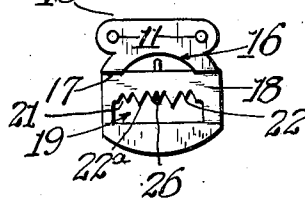
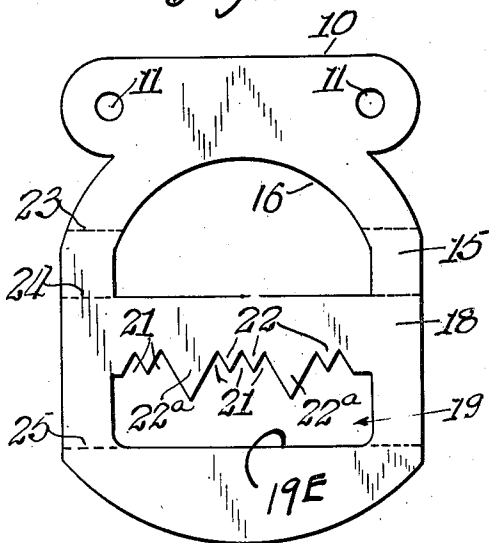


Fig. 5



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HANGER DEVICE

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2 Claims. (Cl. 248—29)

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This invention relates to improvements in hanger devices and it consists of the matters hereinafter described and more particularly pointed out in the appended claims.

The device with which the invention is more especially concerned is of the kind adapted for the hanging support of a picture, mirror, plaque or the like from a coacting hook on an upright wall.

One of the objects of the present invention is to provide a hanger device of this kind whereby the panel-like member, to which it is attached, may be shifted on the coacting hook to better position the upper and lower edge of said member in an even condition in a horizontal plane, and which device prevents the accidental dislodgment of the panel-like member as when dusting in the vicinity of the same.

Another object of the invention is to provide a hanger device of this kind, which is simple in construction and which may be made from sheet material for low cost production and sale.

Also, it is an object of the invention to provide a device of this kind, which may be used in connection with associated supporting wall hooks of different widths.

Furthermore, it is an object of the invention to provide a device of this kind, which may be made from a sheet metal stamping requiring only simple dies for its manufacture.

The above mentioned objects of the invention, as well as others, together with the advantages thereof will more fully appear as the specification proceeds.

In the drawing:

Fig. 1 is a view in elevation of the improved device when attached in operative position upon the back of the panel-like member to be supported thereby, upon a hook on an upright wall.

Fig. 2 is a vertical sectional view through the device and part of the panel-like member, to which it is attached for supporting the same from an associated wall hook, as taken on the line 2—2 of Fig. 1.

Fig. 3 is a vertical sectional view as taken on the line 3—3 of Fig. 2, showing the engagement of a hook portion of small diameter therewith as will be later mentioned.

Fig. 4 is a view similar to Fig. 3, but showing the same when engaged with a hook portion of a width and cross section different from that appearing in Fig. 3.

Fig. 5 is a view in elevation, on an enlarged scale, of a flat sheet metal blank from which the device is produced.

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In general, the improved hanger device is a unitary one in the form of bracket clip preferably produced from a flat sheet metal stamped blank, thereafter bent upon transverse lines so as to include a flat upper portion for attachment to the back of the panel-like member to be supported, a second and rearwardly extending spacing portion and a wall engaging third portion extending downwardly from the rear part of the second portion. The first portion has openings therein for the passage of suitable fasteners whereby the device may be attached to the back of the panel-like member to be supported by means of a hook projecting from an upright wall. The second and third portions each have an opening of considerable size therein, for the passage of coacting parts of said hook therethrough. The upper edge of the opening in the third or wall engaging portion of the device is formed with a plurality of longitudinally spaced, downwardly facing recesses or notches which are separated by intermediate teeth and certain non-adjacent teeth are deeper than those between them so that the device may be used either with hooks having a round cross section of small diameter or with hooks having a flat cross section of a width greater than said diameter.

Referring now in detail to that embodiment of the invention, and especially to Fig. 1 thereof, the improved device includes a flat upper portion 10 having laterally spaced openings 11 (see Figs. 3, 4 and 5) therein for the passage therethrough of fastener elements 12, whereby the device may be attached in operative position to the back of the panel-like member 13 to be supported. The member may be a picture, a mirror, or a wall plaque or the like.

The bottom of the upper portion is connected by an inside corner 14 to the front margin of a second or spacing portion 15 arranged at substantially a right angle to and extending rearwardly from the bottom of said upper portion. In said second portion is a relatively wide opening 16, which may extend into a part of the first portion.

The rear part of said second portion is connected by an outside corner 17 with the upper part of a third portion 18 which extends in a generally outward and downward direction and terminates in a lower wall engaging portion which is preferably arranged in a plane parallel with that of the upper portion.

The third portion has an opening 19 therein of a width approximating that of the opening 16 in the second or spacing portion. The lower edge

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19E of the opening 19 is disposed in the plane of the junction of said wall engaging and said third portions respectively. The upper edge of said opening is provided with a series of inverted V-shaped, downwardly opening notches or recesses 21 separated by V-shaped teeth 22 and certain non-adjacent teeth 22a are deeper from top to bottom than those teeth 22 therebetween.

The bracket clip described is produced from the flat blank of sheet material shown in Fig. 5 and which is bent or folded along the transverse lines 23, 24 and 25 respectively to produce the inside and outside corners before mentioned and the junction corner or bend between the bottom of the third portion and the wall engagement portion.

When the panel-like member to be supported, which is indicated by the numeral 13, is of such size as to need the use of only one device for its support, said device is attached as by means of fasteners 12 to the upper central part of the back thereof. When said member is of such size as to require the use of more than one of said devices for its support, said devices are evenly spaced apart along said upper central part of the back thereof.

Assuming that the panel-like member is of such size as to require only one device for its support from a suitable upwardly facing hook 26, of small diameter cross sectional stock, projecting from an upright wall 27, the hanging procedure is as follows: the member 13 is moved, back first, toward the hook 26 so that the hook will pass through the opening 19 in the third portion 18 whereby the bottom portion of the device engages the surface of the wall. The member 13 is then lowered slightly so that the free upturned end portion of the hook 26 passes through the opening 16 in the second or spacing portion of the device when another part of said hook at the bottom of the bend thereof will engage in one of the notches 21 and preferably in that one which is disposed in the longitudinal medial line thereof.

Very often the device may be applied to the member 13 in a home by a relatively inexperienced person and therefore the device might not be applied exactly centrally of the back of the member so that said member may hang skewed and tilt to one side. By lifting up on said member to clear the bend of the hook 26, the panel member with the device thereon may be shifted laterally so that said bend of the hook may be engaged in that adjacent recess which will make the member balance and hang evenly.

In Fig. 4 we have illustrated the device in use in connection with a hook having a bend portion 26a of a width greater than the diameter of a like portion of the hook in Figs. 1 and 2. Under such conditions, said wider bend portion will be engaged in the space between the two wider non-adjacent teeth 22a-22a with the edges thereof engaging the facing edges of said deeper teeth.

The device is simple in construction for low cost production, is easily attached to the picture, mirror or plaque to be supported and may be readily engaged with wall hooks of different shapes and sizes at the bend thereof.

The form, arrangement, and proportion of the parts is such that the panel 13 cannot be disengaged from the hook by merely pushing the panel 13 upwardly, or by knocking it from one side. The reason for this is that the bottom of the hook 26 will engage the edge 19E defining a part of opening 19 before the hook has become entirely

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free of the member 10. Hence to release the panel it must first be swung outwardly so as to extend away from the wall, at which time the panel may be lifted from the hook.

While in describing the invention we have referred in detail to the form, arrangement and construction of the parts forming the device, the same is to be considered only in the illustrative sense so that we do not wish to be limited thereto except as may be specifically set forth in the appended claims.

We claim as our invention:

1. A device for the hanging support of a panel-like member from a coacting hook on an upright wall and embodying therein a bracket-like clip having an upper end portion adapted for attachment to the back of said panel-like member, a second portion connected by an inside corner to and extending outwardly at an angle from the bottom of the first portion and a third portion which is connected by an outside corner to said second portion and extends in a generally downward direction therefrom and is formed at its bottom end for engagement with said upright wall to space said panel-like member therefrom, said second portion having an opening therein for the passage of a part of said hook therethrough and said third portion being formed to provide a downwardly facing edge below said outer corner and which edge has therein at least one notch for engagement by a second part of said hook when the first mentioned part of said hook extends through said opening in said second portion of the clip.

2. A device for the hanging support of a panel-like member from a coacting hook on an upright wall and embodying therein a bracket-like clip having an upper end portion adapted for attachment to the back of said panel-like member, a second portion connected by an inside corner to and extending outwardly at a right angle from the bottom of the first portion and a third portion which is connected by an outside corner to said second portion and extends in a generally downward direction therefrom and is formed at its bottom end for engagement with said upright wall to space the panel-like member therefrom, said second portion having an opening therein for the passage of a part of said hook therethrough and said third portion having an opening therein which has a top edge spaced downwardly from said outside corner and in which edge is at least one notch for engagement by a second part of said hook when said first mentioned part of the hook extends through said opening in said second portion of the clip.

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