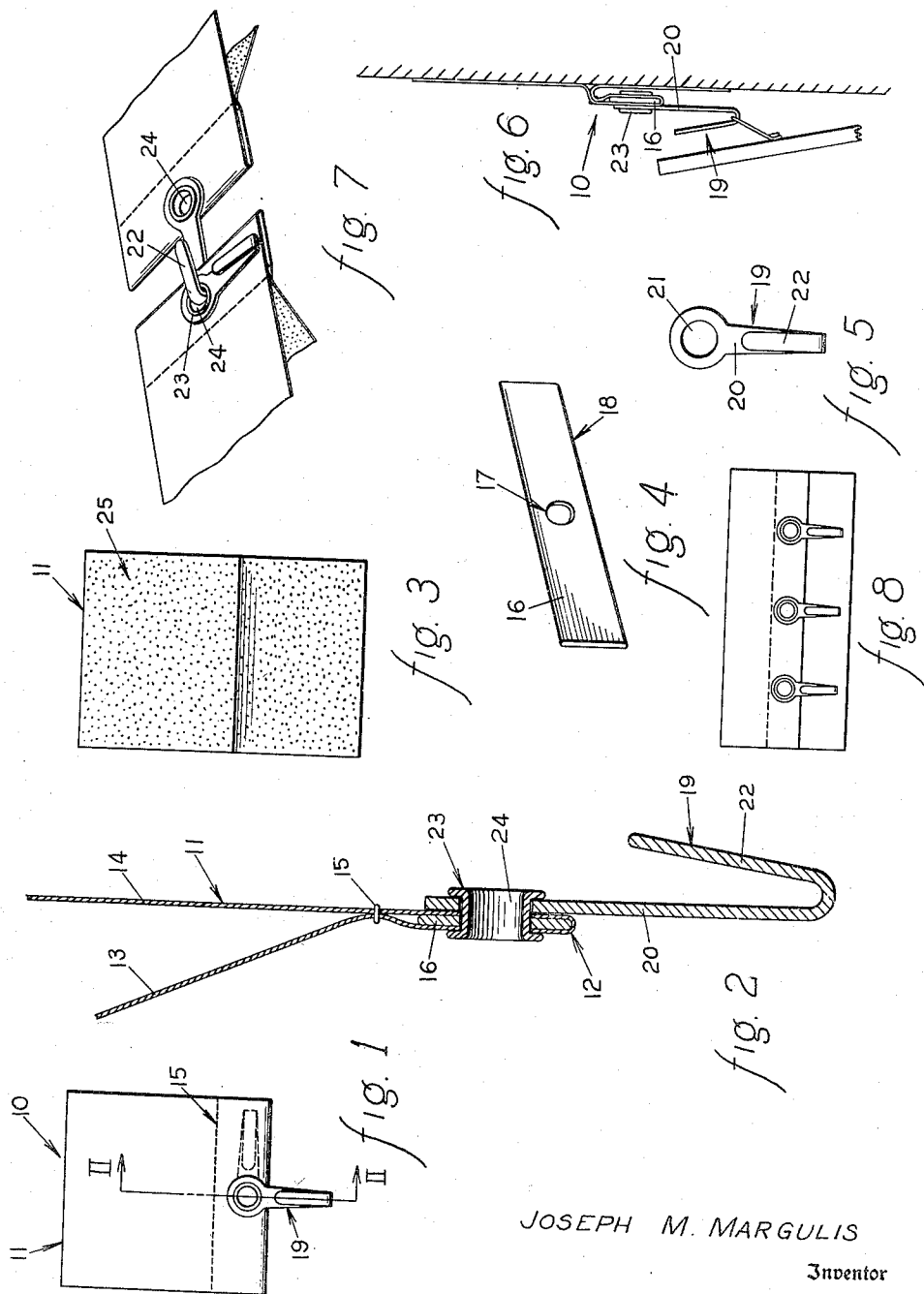


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J. M. MARGULIS
WALL SUPPORTED HANGER

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WALL SUPPORTED HANGER

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This invention relates in general to a wall hanger and more specifically to a nail-less hanger for pictures and the like capable of being secured to the surface of a wall without marring said surface or penetrating it.

In order to hang objects, such as pictures, ceramics, maps or what-nots, on a wall, usually a solid type of fastener, such as a nail, or wire hook, is employed to secure the object upon the wall. It is well known that with the use of solid fasteners, cracks are oftentimes produced in the wall, or plaster is caused to break. Further, when the picture is taken down and the nail or other solid object removed an objectionable mark is left on the surface of the wall. Thus, the advantage of having a wall hanger that may be quickly applied to any surface wherever needed and that will leave no tell-tale cracks, breaks or marks upon the wall, even when removed, can readily be seen.

Accordingly, a primary object of this invention is to provide a wall hanger supporting device having a fastener that may be readily applied to any surface and removed therefrom without injuring said surface.

Another object of this invention is to provide a hanger, as aforesaid, having an adhesive fastener with a steel bar plate secured in the lower portion thereof whereby said hanger will support a weight of twenty pounds or more.

A further object of this invention is to provide a wall hanger, as aforesaid, having a pivoted support hook whereby the shank of said hook may always be aligned coaxially with a central, vertical axis of the suspended object.

Another object of this invention is to provide a wall hanger, as aforesaid, which may be readily manufactured in large quantities at a sufficiently low cost so that it will be readily acceptable to the buying public.

Other objects and purposes of this invention will become apparent to those familiar with this type of device by reading the following description and examining the accompanying drawings in which:

Figure 1 shows a front elevation view of the hanger support, with broken lines showing an alternate position for the hanger hook.

Figure 2 is a sectional view of the invention taken along the line II—II of Figure 1.

Figure 3 is a rear elevation view of the invention with the adhesive flaps spread apart.

Figure 4 is an oblique view of the steel support bar.

Figure 5 is a front elevation view of the hanger hook.

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Figure 6 is a side elevation view of the invention as positioned on a supporting surface or wall.

Figure 7 is an oblique view showing two hanger supports used in cooperation with each other.

Figure 8 shows an alternate form of my invention.

General description

In meeting the above outlined objects, as well as others incidental thereto, I have provided a hanger support 10 (Figures 1, 2 and 3), comprised of a strip of material 11, such as cloth, coated on one side (rear face) with a water activated adhesive. The cloth strip is folded under on itself along a transverse line of fold 12 disposed intermediate its ends to form a pair of flaps 13 and 14, and an intermediate hem as illustratively defined by said fold-line and a transverse line of stitching 15 spaced upwardly therefrom. A steel support bar 16 is secured in said hem between the adhesive surfaces of said flaps, and a metallic hook 19 is pivotally secured upon said support bar intermediate its ends.

For the purpose of convenience and without intending any limitations, the terms "upper" and "lower," as used herein, shall have reference to the parts of the invention positioned respectively as shown in Figures 1 and 2.

Detailed description

As shown in Figures 1, 2 and 3, the cloth strip 11 is preferably rectangular in shape and is coated on one side with an adhesive material 25. While numerous types of flexible material can be used for the strip 11, it has been found that a cotton cloth having 60 by 64 threads per inch is preferable. The adhesive bond 25 is preferably a casein type of glue which will adhere to a surface after a thorough wetting. The cloth strip 11 is folded upon itself at 12 so as to form a pair of flaps 13 and 14 and the aforesaid intermediate hem.

The support bar 16, which is preferably made of steel, but which can be made of any other suitable material, is positioned within the aforesaid hem, with its bottom edge engaging on the fold 12 between the flaps 13 and 14. The support bar 16 may be held within said fold 12 by the adhesive bond 25 and by the aforesaid stitching 15 which extends across the width of the flaps 13 and 14 along a line adjacent to the upper edge of said support bar 16. As appears in the drawing, said support bar is of substantially greater vertical width, that is, width in the direction which will be vertical when the hook is in its normal position of use, than it is in a direction normal to the plane of said hanger.

A small circular opening 17 (Figure 4) is provided through the bar 16 intermediate the ends thereof. The lower edge 13 of the steel bar 16, which rests against the bottom of the fold 12, is rounded to prevent cutting of the cloth strip.

A hanger hook 19 (Figure 5), which may be metallic, has a shank portion 20 with an opening 21 extending through the upper end thereof and a hook portion 22 secured to the lower end. The shank 20 is positioned snugly adjacent said fold 12 (Figure 6) with its opening 21 coaxial with the opening 17 in the metal bar 16, and with the hook portion 22 on the opposite side from the bar 16.

The metal hook 19 is secured in position by means of a hollow metal rivet 23 which extends through the hook opening 21, the opening 17 in the bar 16, and appropriate openings in the strip 11. The size of the opening 21 in the shank 20 and the inside and outside diameters of the rivet 23 are arranged so that the hanger hook is free to pivot to different positions as indicated by the broken line position of the hook in Figure 1.

Operation

The hanger support 10 may be put into operation very quickly and simply. The adhesive coated flaps 13 and 14 are first spread apart as shown in Figure 3, the rear flap 13 is swung downwardly to lie in the plane of the front flap 14, the adhesive 25 is wetted and the flaps 13 and 14 are applied to a wall, or any other smooth surface, as shown in Figure 6. As seen in Fig. 6, the rear flap 13 is now disposed to the rear of the hook 19 and provides a backing therefor. After drying for about 10 minutes, the hanger is ready for use. Any objects such as pictures, calendars, maps or mirrors may be hung upon the hook 19.

It will be noted that even if the support holder is applied to a wall in a tilted or crooked position the operation of the hanger will not be impaired as the hook 19 may be pivoted to a position where the shank 20 is co-axial with the vertical axis of the suspended object. Thus, no difficulty is encountered in accurately centering the object on the wall.

While the hook portion 22 and the opening 21 of the metal hook 19 may be made in varying proportions, a particular referred embodiment, as shown in Figure 7, is constructed so that the hook portion 22 is receivable through the opening 24 in the rivet 23. Thus, two support hangers may be used in cooperation with one another to suspend an object from a wall. As shown in Figure 7, one support hanger may be secured to the back of the object to be supported, in which case the metal hook thereon is turned to one side to furnish a female supporting element, and another support hanger is secured to a wall, as shown in Figure 6, to furnish the male support element. As shown in Figure 8, the support hanger need not be limited to one support hook, but may be constructed with a plurality of supporting hooks to support a number of objects.

Although the invention has been described and illustrated herein with particular reference to one form of the hanger support, it should be appreciated that numerous variations may be made. Therefore it is not my intention implied or otherwise to eliminate other variations or modifications which do not depart from the scope of the invention unless specifically stated to the contrary in the hereinafter appended claims.

I claim:

1. In a nail-less hanger for pictures and the like, the combination of a generally rectangular sheet of flexible material having an adhesive coating on its rear surface and being folded under on itself along a transverse line of fold to provide front and rear flaps normally disposed with their adhesive surfaces facing but free of one another and an intermediate hem extending transversely across the sheet and being substantially contained in the plane of the front flap, transversely extending hook-attaching means contained in the hem and being substantially coextensive therewith, and a picture-supporting hook affixed at its upper end to the middle portion of the attaching means and depending therefrom substantially on the vertical center line of the hanger, the vertical dimension of the rear flap being such that, when it is swung downwardly to lie in the plane of the front flap and both said flaps are adhesively secured to a wall surface, said rear flap is disposed intermediate the wall and the hook and thereby provides a backing for the hook.

2. In a nail-less hanger for pictures and the like, the combination set forth in claim 1 wherein the rear flap is secured to the front flap by a transverse line of stitching defining the upper edge of the hem, said line of stitching providing a hinge on which the rear flap may swing to its downward position.

3. In a nail-less hanger for pictures and the like, the combination set forth in claim 1 wherein the hook is pivotally connected to the attaching means for swinging movement to a raised inactive position.

4. In a nail-less hanger for pictures and the like, the combination of a generally rectangular sheet of flexible material having an adhesive coating on its rear face and being folded under on itself along a transverse line of fold to provide a hem extending across the width of the sheet, a transversely extending support bar contained in the hem and being substantially coextensive therewith, a picture hook, and means swivelly connecting the upper end of the hook to the support bar for swinging movement in a plane closely paralleling the plane of the sheet comprising a rivet affixed to the support bar at the mid-portion thereof and having its axis normal to the plane of the sheet, said rivet providing a swivel mounting for the upper end of the hook.

5. In a nail-less hanger for pictures and the like, the combination set forth in claim 4, wherein said rivet is hollow and provides an eye adapted to receive the bill of the hook of a companion hanger.

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