Oct. 8, 1957 J. M. MARGULIS 2,809,001

HANGER

Filed June 7, 1954

Fig. 1

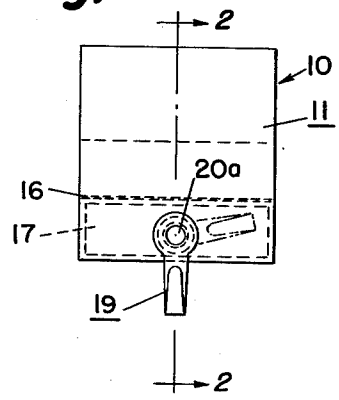


Fig. 2

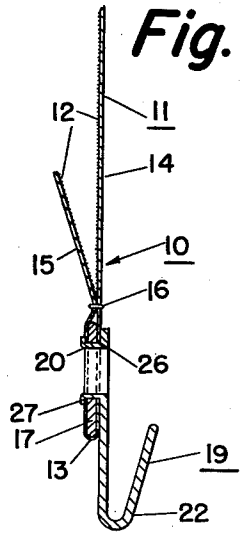


Fig. 3

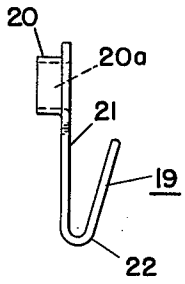


Fig. 4

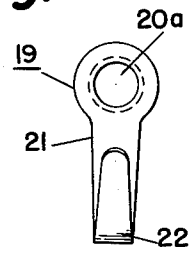


Fig. 5

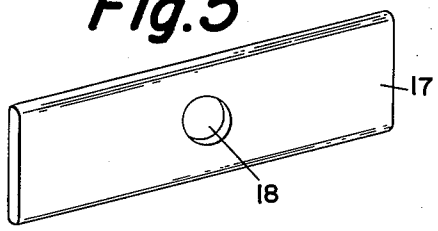


Fig. 6

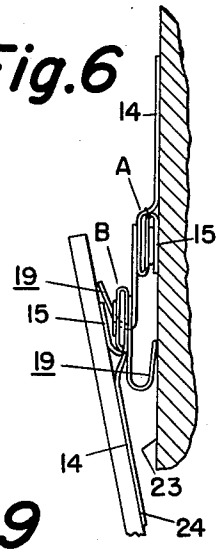


Fig. 7

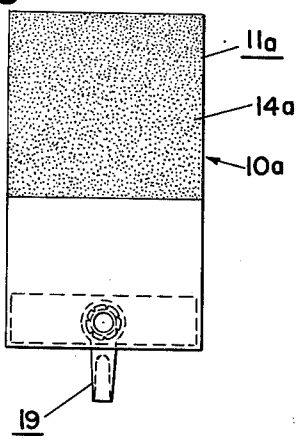


Fig. 8

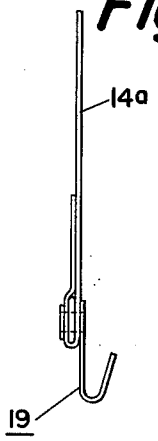
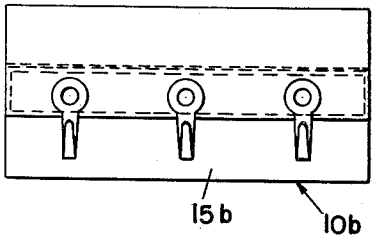


Fig. 9



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HANGER

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5 Claims. (Cl. 248—29)

This invention relates to a hanger and more particularly to an improved nail-less hanger for pictures and the like adapted to be secured to a wall or other supporting surface, without marring, penetrating or damaging such surface.

In my Letters Patent 2,647,711, issued August 4, 1953, I disclosed a wall hanger including a sheet of flexible material having an adhesive backing and provided with a folded-under hem in which a support bar is carried, with a picture hook swivelly connected to the support bar by means of an eyelet or hollow rivet.

This construction has proven eminently useful and has achieved a high degree of success and commercial acceptance, and has replaced solid fasteners such as nails and the like to a considerable extent. Such solid fasteners are, of course, objectionable because their use leads to the cracking of supporting walls and their permanent deformation.

This invention has as an object the provision of an improved wall hanger in which all of the advantages possessed by the construction set forth in my Letters Patent 2,647,711 are secured, yet which is of simpler construction and easier to manufacture.

Another object of this invention is the provision of a fastener that may be readily applied to a wall or other supporting surface and removed therefrom without injuring or penetrating such surface.

A further object is the provision of a hanger, as aforesaid, having a hook which may always be aligned coaxially with a central axis of the suspended object.

Another object is the provision of a hanger which may be interlocked with a similar hanger to permit engagement between one hanger joined to the supporting wall surface and one to the surface of the suspended object.

Further objects will appear in the following description and by reference to the accompanying drawings in which:

Figure 1 is a front elevation of an embodiment of the hanger of the present invention, with an alternate position of the hanger hook being shown in broken line.

Figure 2 is a longitudinal section on line 2—2 of Figure 1.

Figure 3 is a side elevation of the hook portion of the hanger embodiment of Figure 1 prior to incorporation within the hanger.

Figure 4 is a front elevation of the hook portion of Figure 3.

Figure 5 is a perspective view of the steel support bar.

Figure 6 is a side elevational view of two hangers of the invention, respectively positioned on a supporting surface or wall and on the back of a suspended object.

Figure 7 is a rear elevation of another embodiment of the hanger, of the present invention.

Figure 8 is a side elevation of the hanger embodiment of Figure 7.

Figure 9 is a front elevation of another hanger embodiment of the present invention.

Referring to the drawings, and initially to Figures 1 through 6 inclusive 10 designates a hanger or hanger support comprising a strip 11 of fabric or material, such as cotton cloth, and preferably generally rectangularly shaped, coated on its rear face with a layer of water activated adhesive such as a casein type glue, shown diagrammatically in Figure 2 at 12. Cloth strip 11 is folded under or overlapped upon itself along a transverse fold line 13 disposed intermediate its ends to form a front flap 14 and a rear flap 15, and an intermediate hem, as illustratively defined by said fold-line 13 and a transverse line of stitching 16, spaced upwardly therefrom.

A support bar 17 preferably made of metal such as steel or the like, is positioned or secured within said hem with its bottom edge juxtaposed to fold line 13. The support bar 17 may be held or secured within the hem by the adhesive 12 and by the line of stitching 16. A hook-receiving opening 18 is positioned in the center or middle portion of support bar 17.

A hook 19 which may be of metal or the like, such as brass, is pivotally secured upon support bar 17, by having a perpendicular integral tubular flange 20 inserted through hook-receiving opening 18 of support bar 17 and mating openings 26 and 27 on the juxtaposed faces of the hem. The rear end of flange 20 which projects somewhat beyond the rear opening 27 of the hem is flared, swaged or peened so as to retain hook 19 on hanger 10. This is readily accomplished, as tubular flange 20 is of relatively thin cross-section compared with the shank portion 21 and bight or bill portion 22 of hook 19. Hook 19 is secured in position by the flared outwardly turned rear portion of tubular flange 20 and the rear face of shank portion 21 adjacent the flange. The outside diameter of tubular flange 20 is smaller than the diameter of hook-receiving opening 18 and the flared portion of flange 20 does not engage strip 11 so tightly as to prevent pivotation of hook 19.

The bight or bill portion 22 of hook 19, preferably tapers inwardly from the bight and has a smaller width than the diameter of the opening or bore 20*a* in tubular flange 20.

The hanger embodiment of Figures 1 through 6 is used by spreading apart flaps 14 and 15 so that rear flap 15 is swung downwardly from the line of stitching 16 to be generally in the plane of front flap 14. The adhesive coating 12 is wetted and the flaps are applied to a wall or smooth supporting surface 23 (see Figure 6). After drying, such as for a period of thirty minutes or more, the hanger is ready for use. Objects such as pictures, calendars, maps, plaques or the like may be hung upon the hook 19.

Even if the hanger 10 is applied to the wall surface 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 its shank portion 21 is coaxial with the vertical axis of the suspended object (see the pivotation of hook 19 in Figure 1). Thus, no difficulty is encountered in accurately centering the object to be hung on the wall.

If desired, the hanger of my invention may also be joined to the rear surface 24 of an object to be supported, as shown particularly in Figure 6. Thus, the bight portion of the hook from the hanger designated A which is secured to the wall supporting surface 23 is received or nested within the opening 20*a* in flange 20 of the hanger designated B which is secured to the surface 24 of the object to be supported. The hook 19 of hanger B may be flattened as shown in Figure 6.

In the embodiment of my invention shown in Figures 7 and 8 the hanger 10*a* is provided with but a single flap 14*a*, the rear surface of which is coated with adhesive. The hem is defined by the overlapped strip 11*a* with the portion of the overlapped strip above the hem adhesively secured and not stitched together.

In the embodiment shown in Figure 9, the support hang-

er 10*b* of the present invention is provided with a plurality of hooks to support a number of objects. In the embodiment shown in Figure 9, the rear flap 15*b* has a length sufficiently great to provide a backing for the hooks when pivoted to their operative position (as shown in Figure 9).

Various modifications may be made in the embodiments of the invention heretofore described and illustrated. Accordingly, it is my intention that no limitations be placed on the invention other than as defined by the scope of the hereinafter appended claims.

I claim:

1. A nail-less hanger for pictures and the like including a flexible strip coated on its rear face with an adhesive coating and being overlapped upon itself along a transverse line of fold to provide a hem extending across the width of the strip, aligned openings in both faces of said hem, a transversely extending support bar positioned within the hem with its major faces juxtaposed with the faces of said hem, an opening in said support bar aligned with the aligned openings in the hem, a hook, said hook having an integral tubular flange extending generally perpendicularly from its upper end portion through the aligned openings in the hem and support bar, the end portion of said tubular flange remote from the remainder of the hook being flared outwardly and juxtaposed to its neighboring hem face, said tubular flange having an outside diameter sufficiently less than the diameter of said aligned openings in the strip and support bar, so that said hook may be swung in a plane closely paralleling the plane of the strip.

2. A nail-less hanger for pictures and the like including a flexible strip coated on its rear face with an adhesive coating and being overlapped upon itself along a transverse line of fold to provide a hem extending across the width of the strip, aligned openings in both faces of said hem, a transversely extending support bar positioned within the hem with its major faces juxtaposed with the faces of said hem, an opening in said support bar aligned with the aligned openings in the hem, a hook, said hook having an integral tubular flange extending generally perpendicularly from its upper end portion in a direction opposite to the bill of the hook through the aligned openings in the hem and support bar, the end portion of said tubular flange remote from the remainder of the hook being flared outwardly and juxtaposed to its neighboring hem face, said tubular flange having an outside diameter sufficiently less than the diameter of said aligned openings in the strip and support bar, so that said hook may be swung in a plane closely paralleling the plane of the strip.

3. A nail-less hanger for pictures and the like including a flexible strip coated on its rear face with an adhesive coating and being overlapped upon itself along a transverse line of fold to provide a hem extending across the width of the strip, aligned openings in both faces of said hem, a transversely extending support bar positioned within the hem with its major faces juxtaposed with the faces of said hem, an opening in said support bar aligned with the aligned openings in the hem, a hook, said hook having an integral tubular flange extending generally perpendicularly from its upper end portion through the aligned openings in the hem and support bar, said tubular flange having a wall thickness appreciably less than that of the shank of the hook, the end portion of said tubular flange

remote from the remainder of the hook being flared outwardly and juxtaposed to its neighboring hem face, said tubular flange having an outside diameter sufficiently less than the diameter of said aligned openings in the strip and support bar, so that said hook may be swung in a plane closely paralleling the plane of the strip.

4. A nail-less hanger for pictures and the like including a flexible strip coated on its rear face with an adhesive coating and being overlapped upon itself along a transverse line of fold to provide a hem extending across the width of the strip, aligned openings in both faces of said hem, a transversely extending support bar positioned within the hem when its major faces juxtaposed with the faces of said hem, an opening in said support bar aligned with the aligned openings in the hem, a hook, said hook having an integral tubular flange extending generally perpendicularly from its upper end portion through the aligned openings in the hem and support bar, the bore of said tubular flange having an inside diameter greater than the width of the bill of the hook, whereby the bill of a hook of a second hanger may be received within the bore of said tubular flange, the end portion of said tubular flange remote from the remainder of the hook being flared outwardly and juxtaposed to its neighboring hem face, said tubular flange having an outside diameter sufficiently less than the diameter of said aligned openings in the strip and support bar, so that said hook may be swung in a plane closely paralleling the plane of the strip.

5. A nail-less hanger for pictures and the like including a flexible strip coated on its rear face with an adhesive coating and being overlapped upon itself along a transverse line of fold to provide a hem extending across the width of the strip, aligned openings in both faces of said hem, a transversely extending support bar positioned within the hem with its major faces juxtaposed with the faces of said hem, an opening in said support bar aligned with the aligned openings in the hem, a hook, said hook having an integral tubular flange extending generally perpendicularly from its upper end portion in a direction opposite to the bill of the hook through the aligned openings in the hem and support bar, said tubular flange having a wall thickness appreciably less than that of the shank of the hook, the bore of said tubular flange having an inside diameter greater than the width of the bill of the hook, whereby the bill of a hook of a second hanger may be received within the bore of said tubular flange, the end portion of said tubular flange remote from the remainder of the hook being flared outwardly and juxtaposed to its neighboring hem face, said tubular flange having an outside diameter sufficiently less than the diameter of said aligned openings in the strip and support bar, so that said hook may be swung in a plane closely paralleling the plane of the strip.

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