

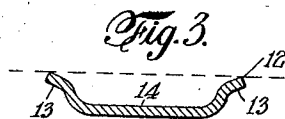
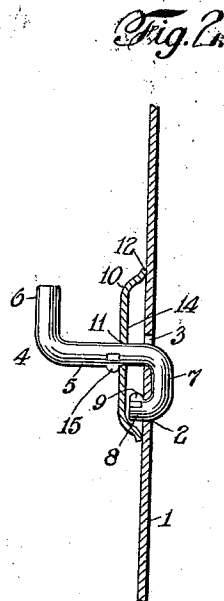
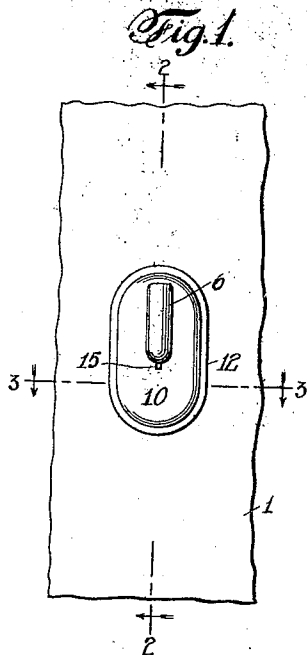
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HANGER

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HANGER

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This invention relates to a hanger and more particularly to a new and improved hanger arrangement whereby the elements thereof can be easily and expeditiously assembled.

6 The invention provides means whereby a hook can be rigidly secured to a suitable wall in a facile and efficient manner. The invention also provides a hanger arrangement having some of the elements thereof arranged and constructed so that they not only contribute structurally towards the stability of the hook portion thereof, but also serve to impart to the arrangement an ornamental appearance.

15 The invention also consists in certain new and original features of construction and combinations of parts hereinafter set forth and claimed.

20 Although the novel features which are believed to be characteristic of this invention will be particularly pointed out in the claims appended hereto, the invention itself, as to its objects and advantages, the mode of its operation and the manner of its organization, may be better understood by referring to the following description taken in connection with the accompanying drawing forming a part thereof, in which:

30 Figure 1 is a front elevation of an embodiment of the present invention;

Figure 2 is a section taken on line 2—2 of Figure 1; and

35 Figure 3 is a section taken on line 3—3 of Figure 1.

Like reference characters denote like parts in the several figures of the drawing.

40 In the following description and in the claims parts will be identified by specific names for convenience, but they are intended to be as generic in their application to similar parts as the art will permit.

45 In accordance with a concrete exemplification of the present invention, there is shown in the accompanying drawing a metal wall 1 similar to that found in the interior of refrigerators. This wall is provided with a circular aperture 2 and an elongated aperture 3. Cooperating with the wall 1 through the instrumentality of these apertures 2 and 3 is a hanger 4. This hanger 4 includes a shank

portion 5, one end of which is preferably provided with an upstanding extension 6 which serves as a hook element. The other end of the shank 5 is provided with an angular offset 7, the terminus of which is bent to provide an angular end 8. As shown in Figure 2, the hanger arrangement is assembled so that the offset 7, cooperating with the shank 5 and the angular end 8, embraces the back part of the wall 1 between the apertures 2 and 3.

55 The offset 7 has a snug contact with the wall 1. To secure this relationship between the offset 7 and the wall 1, the angular end 8 is pinched or otherwise deformed to provide a detent 9 on that portion of said end adjacent said wall.

60 Mounted adjacent the wall 1 is a dished plate 10 having an aperture 11 for the passage therethrough of the shank 5. The edge 12 of this plate impinges on the wall 1, as shown in Figures 2 and 3. It is preferred to have the marginal portion 13 adjacent said edge, angularly disposed with reference to the plane of said edge. It is also preferred to have the plate 10 constructed of thin metal so that the center portion 14 thereof and the marginal portion 13 can flex slightly under manual pressure. The shank 5 is pinched or otherwise deformed to provide a detent 15 adjacent said plate 10.

65 It should be noted that this capacity of the center and marginal portions 14 and 13, respectively, of the plate 10 to flex under manually applied pressure is not an indispensable factor of the present invention. The plate 10 may be constructed of heavy material, if desired, with the marginal portions thereof built so as to be incapable of flexing, without departing from the spirit of the invention.

70 In assembling the hanger elements, the hanger 4 is first passed through the elongated aperture 3 and the angular end 8 inserted through the circular aperture 2 into the position shown in Figure 2. The hanger 4 is then pulled forwardly to provide pressure contact between the offset 7 and the wall 1, and the angular end 8 is pinched with a suitable tool to form the detent 9 as close

to said wall as possible. The dished plate 10 is then placed in position and the center portion 14 thereof slightly flexed backwardly while the hanger 4 is being pulled forwardly. During this stressing operation, the shank 5 is pinched to form the detent 15 as close to the flexed plate 10 as possible. It should be noted that the stress applied to the center portion 14 of the plate 10 not only serves to flex said portion, but also serves to press the edge 12 of said plate into conforming relationship with the surface of the wall 1. In this manner, the flexed portion 14 of said plate reacts forwardly and cooperates with the detent 15 so as to bring the offset 7 into more intimate contact with the wall 1. This serves to effect a substantial rigid mounting for the hanger 4.

It should be noted that the plate 10 not only serves to structurally maintain the various elements of the hanger arrangement in rigid relationship, but also imparts to said arrangement a decorative effect.

It should also be noted that the hanger arrangement, in accordance with the present invention, is very inexpensive and can be very expeditiously assembled. These hangers can be easily replaced and the operations for the assembling of the elements thereof can be easily performed on one side of the wall.

It should be further noted that the present invention, by obviating the necessity of threaded members, has eliminated those disadvantages incidental to the loosening of such members.

Hanger arrangements constructed in accordance with the present invention are particularly adapted to the interior of refrigerators where they serve to hold the shelves in place. It is obvious, however, that they can also be adapted to any thin rigid wall, such as a metal wall, without departing from the spirit of the invention.

While certain novel features of the invention have been shown and described and are pointed out in the annexed claims, it will be understood that various omissions, substitutions and changes in the forms and details of the device illustrated and in its operation may be made by those skilled in the art without departing from the spirit of the invention.

I claim:

1. In combination with a wall having two apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an angular end which passes through the other aperture of said wall, a detent on the portion of said angular end adjacent the front part of the wall, and a dished plate having an aperture which embraces said shank, said dished plate having its periphery

impinging on the wall, and a detent on the portion of said shank adjacent the plate.

2. In combination with a wall having two apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an angular end which passes through the other aperture of said wall, a detent on the portion of said angular end adjacent the front part of the wall, a dished plate having an aperture which embraces said shank, said dished plate having its periphery impinging on the wall, and means associated with said shank for locking said plate in place.

3. In combination with a wall having two apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an angular end which passes through the other aperture of said wall, means associated with that portion of the angular end projecting beyond the front surface of the wall for restraining the displacement of said hanger in one direction, a dished plate having an aperture which embraces said shank, said dished plate having its periphery impinging on the wall, and means for locking said plate in place.

4. In combination with a wall having two apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an angular end which passes through the other aperture of said wall, means associated with that portion of the angular end projecting beyond the front surface of the wall for restraining the displacement of said hanger in one direction, and a dished plate having an aperture which embraces said shank, said dished plate having its periphery impinging on the wall, and a detent on said shank cooperating with the plate.

5. In combination with a wall having two apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an angular end which passes through the other aperture of said wall and which projects beyond the front surface thereof, a detent associated with the projected portion of said angular end for restraining the displacement of said hanger in one direction, a dished plate adapted to cover said projected portion of the angular end as well as said detent, and means for locking said dished plate in place.

6. In combination with a wall having two apertures therethrough, a hanger having the

shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with
5 an angular end which passes through the other aperture of said wall and which projects beyond the front surface thereof, a detent on the portion of said angular end adjacent the front surface of the wall, a
10 dished plate adapted to cover said projected portion of the angular end as well as said detent, and means for locking said dished plate in place.

7. In combination with a wall having two
15 apertures therethrough, a hanger having the shank portion thereof passing through one of said apertures, an angular offset at one end of said shank disposed along the back of the wall, said offset being provided with an
20 angular end which passes through the other aperture of said wall, and means associated with those portions of the shank and the angular end extending in front of said wall for interlocking said hanger to said wall.

25 In testimony whereof, I have affixed my signature to this specification.

SETH G. MALBY.

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