Nov. 18, 1969 O. E. KAESLIN 3,478,891

VERTICAL SHELF AND CLOTHES POLE SUPPORT

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Fig. 1

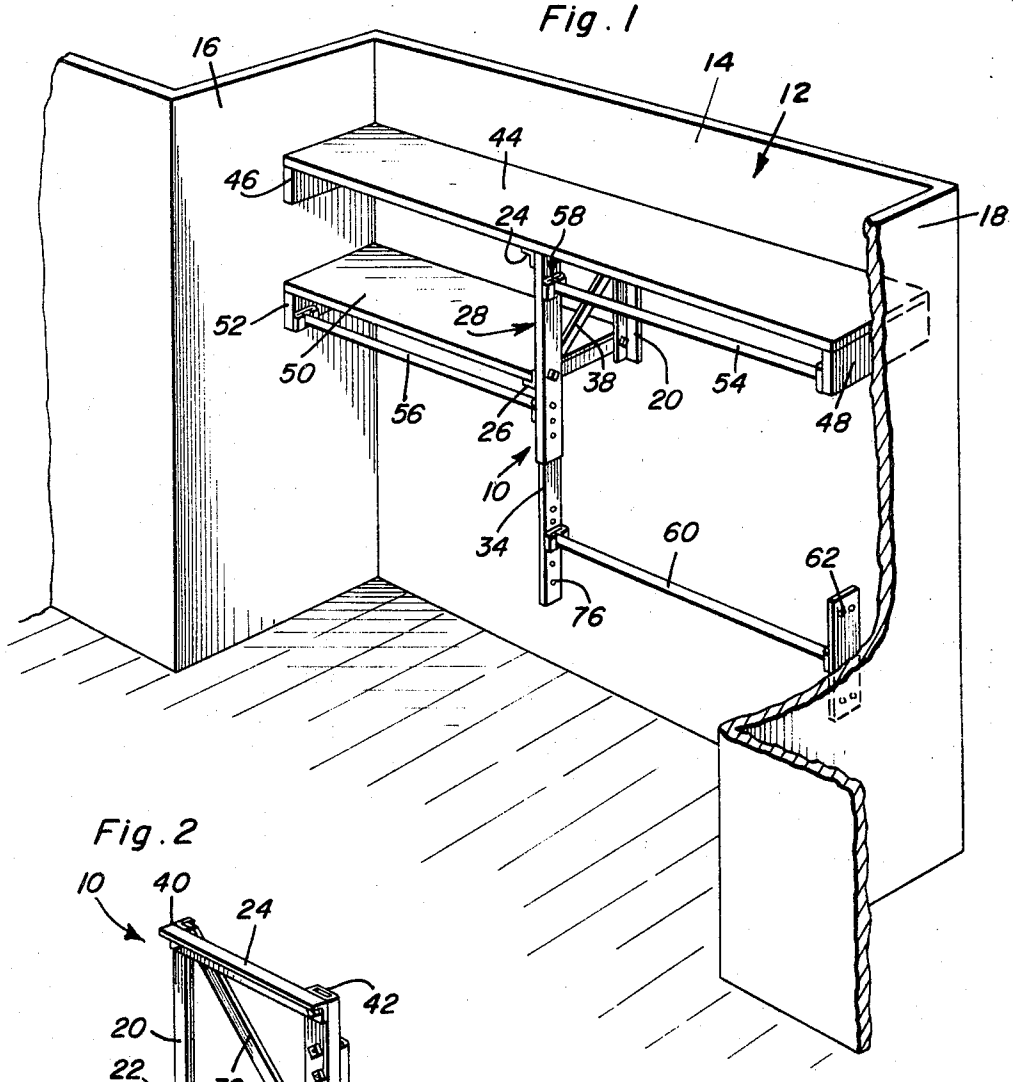
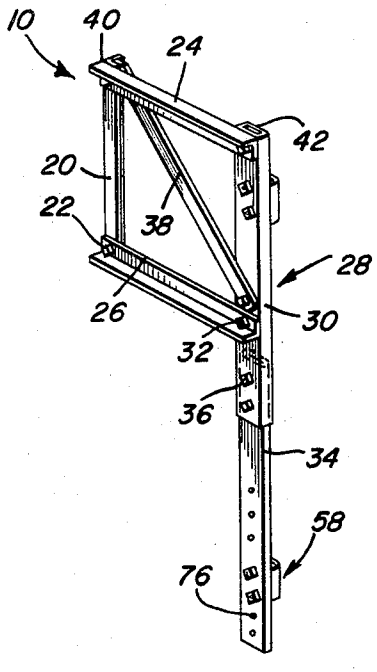


Fig. 2



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Fig. 3

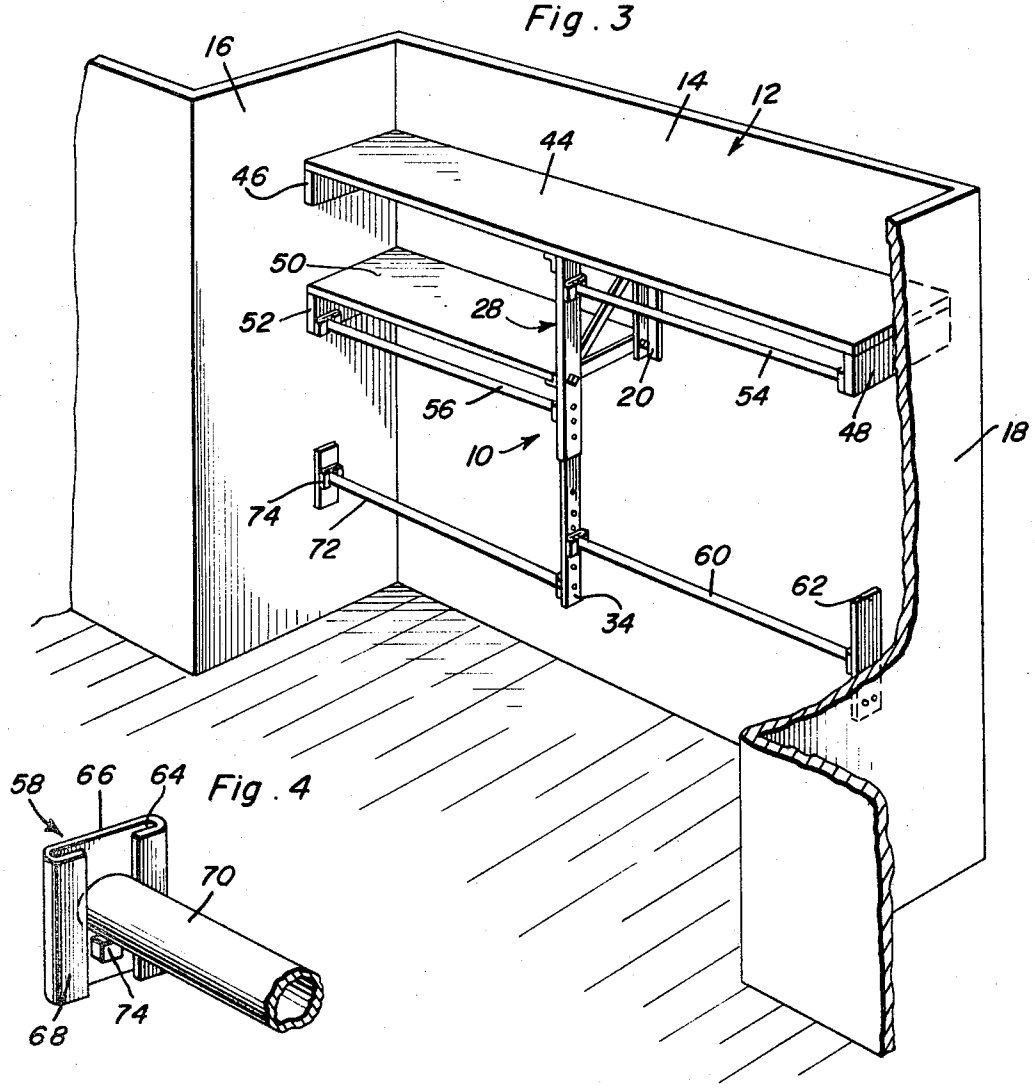
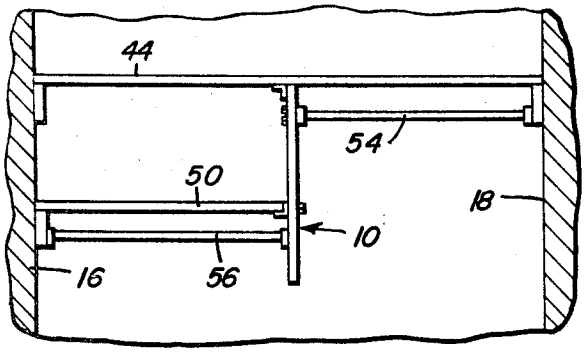


Fig. 4

Fig. 5



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VERTICAL SHELF AND CLOTHES POLE SUPPORT

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U.S. Cl. 211—90 14 Claims

ABSTRACT OF THE DISCLOSURE

A support bracket assembly mounted on the back wall of a closet space to support shelves and garment poles on either side. The bracket assembly includes a vertical rail spaced from a mounting rail, to which pole supports are secured below shelves resting on ledges of shelf supports interconnecting the rails.

This invention relates to the storing of articles and garments within a closet space and more particularly to a support bracket by means of which the space within a closet is partitioned into storage zones for articles and garments of different sizes.

An important feature of the present invention is to provide a bracket assembly adapted to be mounted on the back wall enclosing a closet space by means of which an arrangement of shelves and garment poles may be mounted for storing articles and garments.

In accordance with the present invention, the bracket assembly aforementioned partitions the space within the closet so as to support different arrangements of shelves and garment poles on its opposite sides. The shelf and pole support arrangements may be varied or adjusted in order to meet different requirements.

The construction of the bracket assembly is such as to provide installational versatility as aforementioned as well as to facilitate installation. Also, the bracket assembly and associated parts or components are economical to make in that they may be manufactured from stock parts and easily assembled.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

FIGURE 1 is a perspective view showing a typical installation of one form of the present invention.

FIGURE 2 is a perspective view showing the support bracket assembly associated with the installation illustrated in FIGURE 1.

FIGURE 3 is a perspective view showing another installation for the invention.

FIGURE 4 is a perspective view of one of the pole supports associated with the illustrated forms of the invention.

FIGURE 5 is a diagrammatic view of a basic installational arrangement for the invention.

Referring now to the drawings in detail, and initially to FIGURES 1 and 2, it will be observed that the basic component of the present invention is a vertical support bracket assembly generally denoted by reference numeral

10 adapted to be mounted on the back wall 14 of a closet space 12 defined for example between the side walls 16 and 18 which extend at right angles on the back wall 14. The bracket assembly 10 is accordingly mounted on the back wall 14 at the proper height intermediate the side walls 16 and 18 to thereby partition the closet space into storage zones on the opposite sides of the bracket assembly.

The bracket assembly 10 includes a vertical mounting rail 20 in the form of an angle bar one leg of which is secured in any suitable fashion to the back wall 14 preferably at a location where the wall is backed by a vertical stud so that firm support may be provided for the bracket assembly. Connected to the leg of the mounting rail which extends perpendicular to the back wall, by means of suitable fasteners 22, are the shelf supports 24 and 26, the horizontal supporting legs of which extend from one side only of the bracket assembly. The shelf supports extend therefore forwardly from the back wall perpendicular thereto and are interconnected adjacent the forward ends by a vertically elongated support rail generally referred to by reference numeral 28 disposed in parallel spaced relation to the mounting rail 20. The support rail also extends downwardly below the mounting rail and includes an upper tubular portion 30 to which the shelf supports are secured by suitable fasteners 32. A lower extension 34 is secured to the tubular post 30 by the fasteners 36 interconnecting the telescoping portions of the tubular post and extension. In order to rigidify the bracket assembly, a brace element 38 interconnects the mounting and support rails adjacent the upper and lower shelf supports to form a truss.

The horizontal leg of the upper shelf support 24 is flush with the upper ends 40 and 42 of the mounting and support rails as shown in FIGURE 2 so as to support a top shelf 44 intermediate the longitudinal ends thereof as shown in FIGURE 1. The opposite longitudinal ends of the top shelf 44 are supported on the side walls 16 and 18 by wall plates or cleats 46 and 48 secured to the side walls. Thus, the top shelf 44 may extend on both sides of the bracket assembly. The lower shelf 50 on the other hand is disposed on only one side of the bracket assembly and is supported at the opposite longitudinal ends by the horizontal leg of the lower shelf support 26 and the cleat 52 secured to the side wall 16. Also supported closely spaced below the top shelf 44 on one side of the bracket assembly and the lower shelf 50 on the other side of the bracket assembly, are garment poles 54 and 56. The garment poles are supported at the opposite longitudinal ends by aligned pole supports 58 secured to opposite sides of the vertical rail 28 and to the cleats 48 and 52. An additional garment pole 60 may also be supported below the pole 54 by means of pole supports secured to the lower extension 34 of the support rail and a wall plate 62 secured to the side wall 18.

The garment poles may be either wooden rods or metal tubes, the opposite axial ends of which are received within the pole supports 58. Each pole support 58 as more clearly seen in FIGURE 4, includes a channel-shaped member 64 having a web portion 66 and retaining flanges 68 spaced therefrom between which the end of a pole is received. A stop element 74 projects from the web por-

tion 66 of the channel-shaped member in engagement with the end of the pole so as to support the same within the channel-shaped member. Each pole is therefore merely cut to the proper length so as to extend between the support rail of the bracket assembly and one of the side walls of the closet space. The web portions 66 of the pole supports 58 are accordingly secured in any suitable fashion to the opposite sides of the support rail 28 and to the cleats on the side walls supporting the longitudinal ends of the shelves in order to support the poles 54 and 56 just below the top and lower shelves as aforementioned. The additional pole 60 on the other hand is mounted in an adjusted position between the wall plate 62 and a location on the lower extension 34 provided with a plurality of apertures 76 for securing the pole support in an adjusted position.

The two storage zones into which the closet space 12 is partitioned by the bracket assembly 10 as shown in FIGURE 1, will respectively accommodate garments and articles of different sizes. On one side of the bracket assembly, more shelf storage space is provided and regular length garments hung from the pole 56. Shorter length garments on the other hand may be hung from the poles 54 and 60 on the other side of the bracket assembly which thereby provides for the storing of more garments.

The closet space 14 may also be arranged as shown in FIGURE 3 by use of yet another pole 72, pole support, extension 34 and wall plate 74. The garment pole 72 is supported below the shelf 50 on one side of the bracket assembly 10 rendering the closet arrangement ideal for children by limiting it to the hanging of short garments on both sides of the bracket assembly 10.

FIGURE 5 shows the basic closet arrangement that could be installed during construction of the home or apartment for example when exact use of the closet is unknown. Thus, the extension 34 and garment poles 60 and 72 are omitted permitting the hanging of long garments in both sides of the bracket assembly 10 and increased storage space below pole 54. This basic arrangement may of course be readily expanded into the arrangements shown in FIGURES 1 and 3.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described.

What is claimed as new is as follows:

1. In combination with a vertical wall, a vertically elongated bracket assembly extending perpendicular to the wall for supporting horizontal shelves and garment poles on opposite sides of a support plane comprising, a mounting rail secured to and abutting the wall, a plurality of vertically spaced shelf supports connected to said mounting rail and extending forwardly therefrom perpendicular to said wall, a vertically elongated support rail interconnected with said shelf supports in forward parallel spaced relation to the mounting rail to form said support plane and at least one pole support mounted by the support rail below a lowermost or an uppermost shelf support.

2. In combination with a vertical wall, a vertically elongated bracket assembly extending perpendicular to the wall for supporting horizontal shelves and garment poles on opposite sides thereof comprising, a mounting rail secured to the wall, a plurality of vertically spaced shelf supports connected to said mounting rail and extending forwardly therefrom perpendicular to said wall, a vertically elongated support rail interconnected with said shelf supports in parallel spaced relation to the mounting rail and at least one pole support mounted by the support rail below a lowermost or an uppermost shelf support, said support rail extending downwardly below the mounting rail and an additional pole support is mounted on the support rail in a vertically adjusted position on one side of the bracket assembly below the uppermost shelf support.

3. The combination of claim 2 including a brace element interconnecting the mounting and support rails adjacent the uppermost and lowermost shelf supports.

4. The combination of claim 3 wherein the shelf supports below the uppermost shelf support project only from the other side of the bracket assembly.

5. The combination of claim 4 wherein each of said pole supports comprises a channel-shaped member having retaining flanges, and a stop element projecting from the channel-shaped member between the retaining flanges engaging the end of a garment pole.

6. The combination of claim 5 wherein said support rail comprises a tubular post to which the shelf supports are secured and a lower extension to which the additional pole support is secured.

7. The combination of claim 2 wherein said support rail comprises a tubular post to which the shelf supports are secured and a lower extension to which the additional pole support is secured.

8. The combination of claim 7 wherein each of said pole supports comprises a channel-shaped member having retaining flanges, and a stop element projecting from the channel-shaped member between the retaining flanges engaging the end of a garment pole.

9. In combination with a vertical wall, a vertically elongated bracket assembly extending perpendicular to the wall for supporting horizontal shelves and garment poles on opposite sides thereof comprising, a mounting rail secured to the wall, a plurality of vertically spaced shelf supports connected to said mounting rail and extending forwardly therefrom perpendicular to said wall, a vertically elongated support rail interconnected with said shelf supports in parallel spaced relation to the mounting rail and at least one pole support mounted by the support rail below a lowermost or an uppermost shelf support, said support rail comprising a tubular post to which the shelf supports are secured and a lower extension, and an additional pole support secured in a vertically adjusted position to the extension on one side of the bracket assembly below an uppermost shelf mounted on the uppermost shelf support.

10. The combination of claim 9 including an additional shelf mounted by the shelf support below the uppermost shelf support on the other side of the bracket assembly.

11. The combination of claim 10 including a brace element interconnecting the mounting and support rails adjacent the uppermost and lowermost shelf supports.

12. The combination of claim 9 wherein each of said pole supports comprises a channel-shaped member having retaining flanges, a pole socket having an end flange received within the channel-shaped member behind the retaining flanges and a stop element projecting from the channel-shaped member between the retaining flanges engaging the end flange below the pole socket.

13. The combination of claim 1 including an uppermost shelf supported by the uppermost shelf support on top of the bracket assembly, a lowermost shelf mounted by another shelf support on one side of the bracket assembly and an additional pole support, said pole supports being mounted on opposite sides of the bracket assembly below the uppermost and lowermost shelves.

14. A wardrobe shelf and hanger pole assembly for mounting on the walls of closets and the like, comprising wall plates adapted to be secured to opposed walls, an intermediate wall bracket mountable on another wall to project between said wall plates in substantially parallel relation thereto, first shelf means mounted on top of said wall plates and the bracket and supported thereby, a hanger pole extending between and supported by one of said plates and the wall bracket in spaced and substantially parallel relationship to the first shelf means, second shelf means extending between and supported by said

wall bracket and another of the plates in spaced and substantially parallel relationship to said first shelf means and a hanger pole extending between and supported by the wall bracket and said other of the plates in spaced and substantially parallel relationship with said second shelf means, and horizontally aligned end supports carried by the wall plates and the bracket engaged with said hanger poles for support thereof.

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