Dec. 15, 1959 L. KOVACS 2,917,185

SLIDABLY MOUNTED ARTICLE CARRYING MEMBER UNIT

Filed June 8, 1956 2 Sheets-Sheet 1

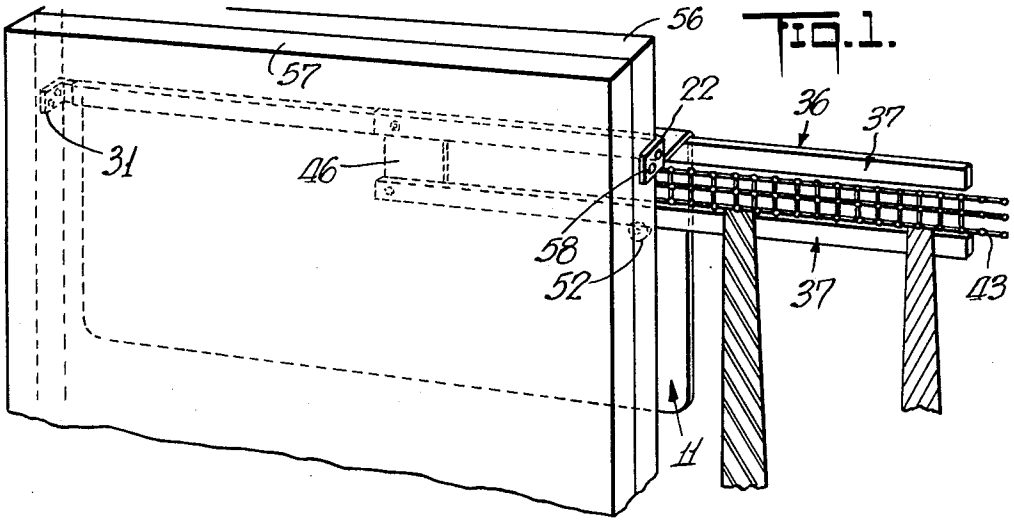


FIG. 1.

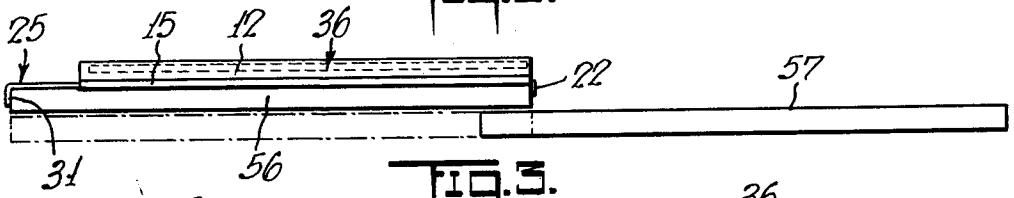


FIG. 2.

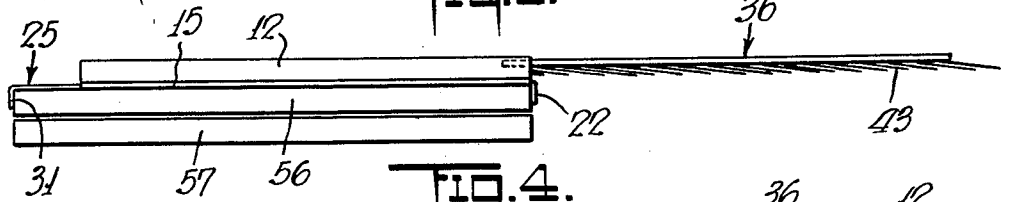


FIG. 3.

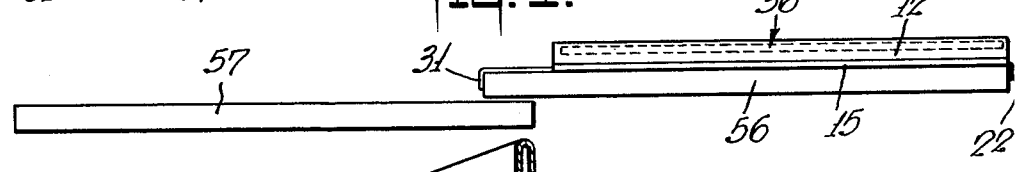


FIG. 4.

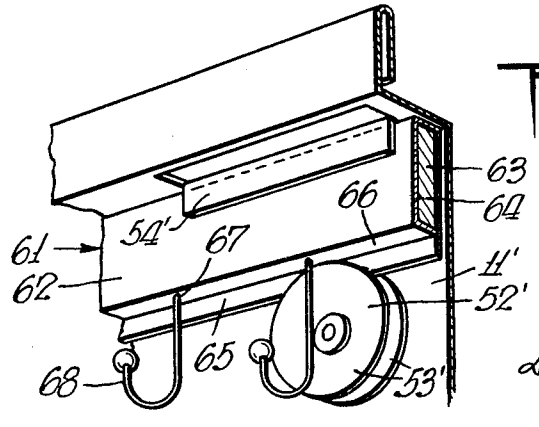


FIG. 9.

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Dec. 15, 1959 L. KOVACS 2,917,185

SLIDABLY MOUNTED ARTICLE CARRYING MEMBER UNIT

Filed June 8, 1956 2 Sheets-Sheet 2

FIG. 5.

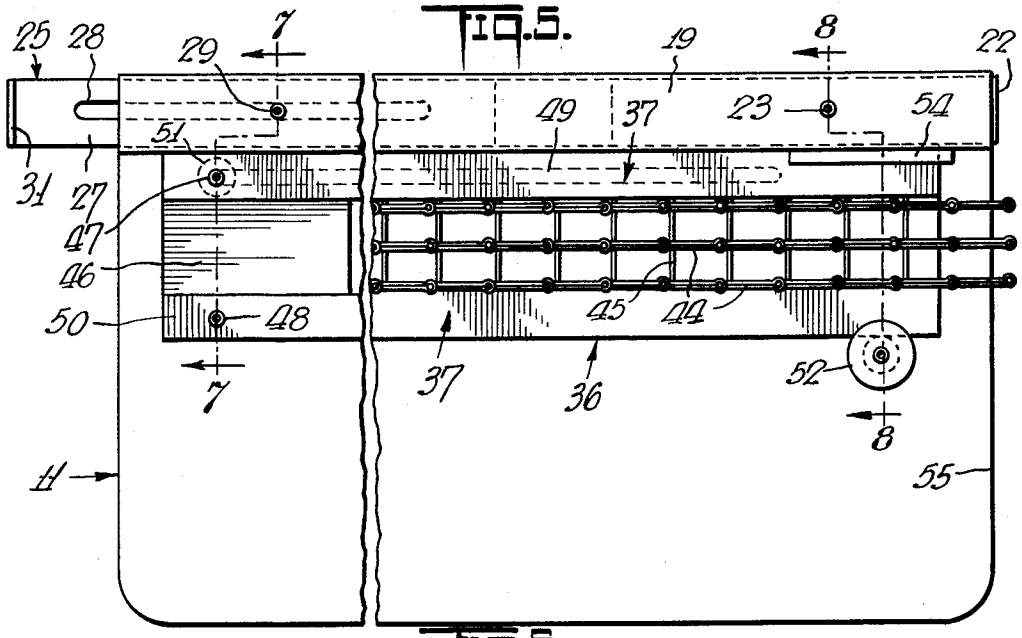


FIG. 6.

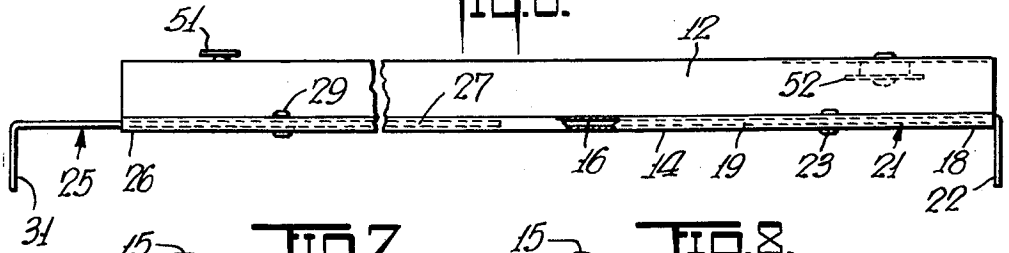


FIG. 7.

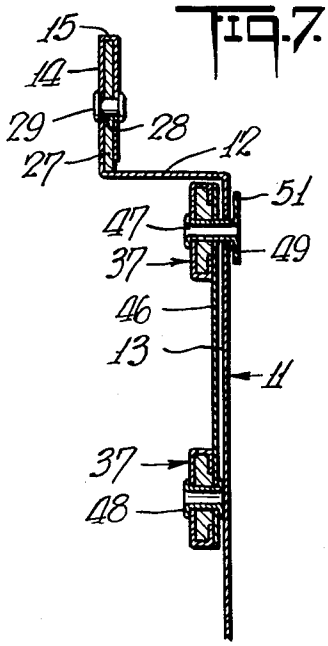
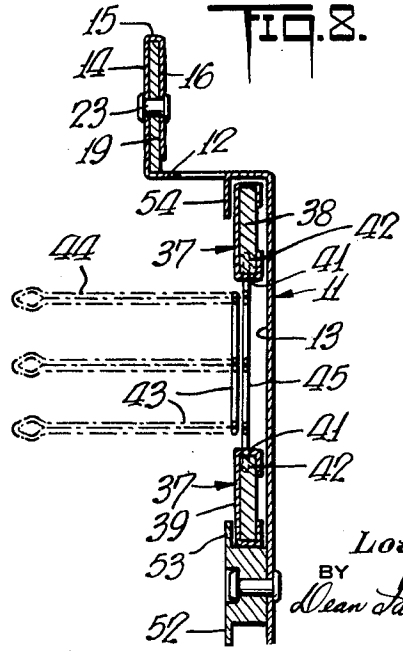


FIG. 8.



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SLIDABLY MOUNTED ARTICLE CARRYING MEMBER UNIT

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Application June 8, 1956, Serial No. 590,147

6 Claims. (Cl. 211—94)

This invention relates to the art of slidably mounted article carrying members, more particularly of the type for use on sliding panels for closets.

As conducive to an understanding of the invention it is noted that where a closet is of the type having a pair of sliding panels, it is relatively difficult to utilize such panels as the support for an article carrying member, such as a tie rack, for such member, if rigidly mounted on the inner surface of one of said panels, would be relatively inaccessible for use.

It is accordingly among the objects of the invention to provide a unit of the above type which may readily be fabricated at relatively low cost, has but few simple parts that are not likely to become deranged and which may readily be mounted on the rear surface of the innermost panel of a closet of the sliding panel type without any structural modification of such panel and without in any way interfering with the normal sliding motion thereof, and which may readily be actuated with a simple motion when the panels are in open position to provide ready access to the article carrying member.

According to the invention, these objects are accomplished by the arrangement and combination of elements hereinafter described and particularly recited in the claims.

In the accompanying drawings in which are shown one or more of various possible embodiments of the several features of the invention:

Fig. 1 is a fragmentary perspective view of the unit installed on a sliding panel of a closet,

Fig. 2 is a top plan view of the installation of Fig. 1 with the panels in closed position,

Fig. 3 is a view similar to Fig. 2 with the panels in open position and with the article carrying member extended for use,

Fig. 4 is a view similar to Fig. 2 of the panels in a second closed position,

Fig. 5 is a front elevational view of the unit,

Fig. 6 is a top plan view of the unit,

Fig. 7 is a sectional view taken along line 7—7 of Fig. 5,

Fig. 8 is a sectional view taken along line 8—8 of Fig. 5, and,

Fig. 9 is a fragmentary perspective view of another embodiment of the invention.

Referring now to the drawings, as shown in Figs. 5 to 8, the unit desirably comprises a substantially rectangular mounting plate 11 which has a ledge 12 at the upper edge thereof extending outwardly from the inner surface 13 of plate 11 at right angles thereof. Rising from the outer edge of ledge 12 at right angles thereto is a wall 14 which is reversely bent as at 15 to define a mount or channel 16.

Positioned in channel 16 at one end 18 thereof is the arm 19 of a substantially L-shaped mounting bracket 21, the arm 22 of which extends outwardly from wall 14 at right angles thereto. The bracket 21 is secured in channel 16 by means of rivet 23 which extends through

the wall 14 and arm 19 of the bracket 21, the arm 22 being provided with suitable mounting holes.

An additional substantially L-shaped mounting bracket 25 is slidably mounted in channel 16 at the other end 26 thereof. To this end the arm 27 of bracket 25, which is positioned in channel 16, has an elongated longitudinal slot 28 through which a rivet 29 extends, said rivet also extending through wall 14 to limit the outward movement of arm 27 from channel 16. The arm 31 of bracket 25 also extends outwardly from wall 14 at right angles thereto and is provided with suitable mounting holes.

Slidably mounted on the inner surface 13 of plate 11 is a tie rack 36, which though of any suitable type, is desirably similar to that shown in Patent No. 2,473,029.

The tie rack 36 desirably consists of a pair of relatively narrow parallel bars 37 rectangular in cross section, each comprising a wood section 38 with a metal cover of channel stock 39. Said bars may be made, if desired, wholly of wood or of plastic.

Located in the opposing edges of said bars, midway between the faces thereof, are a series of aligned holes 41 in each aligned pair of which the ends 42 of a resilient wire form 43 composed of a single wire are inserted. The resilient forms are frictionally yet pivotally mounted in the holes 41, said holes being slightly smaller in diameter than that of the wire. Each continuous length of wire is bent into a plurality of hairpin shaped hanger arms 44 lying in a common plane, the connecting length 45 between consecutive arms 44 being substantially aligned with the pivoting ends 42 thereof. The outer extremity of each arm is enlarged to form a loop to retain the tie thereon. The hairpin shaped hanger arms are of greater length than the distance between the consecutive wire forms so that the wire forms overlap in retired position as indicated in Fig. 5.

To ensure that the bars 37 will remain in spaced parallel relation, a rectangular plate 46 is affixed to the rear surface thereof as by rivets 47, 48 adjacent the end 50 of the tie rack and the hanger forms 43 are positioned to the right of such plate as is clearly shown in Fig. 5.

Although the tie rack 36 may be slidably mounted on plate 11 in any suitable manner, as illustratively shown, the rivet 47 extends through a longitudinal slot 49 in plate 11 adjacent ledge 12 and has an enlarged head 51 securely yet slidably to retain the tie rack against the plate 11. To guide the tie rack, a roller 52 is rotatably mounted on the plate 11 adjacent the side edge 55 thereof and is spaced from the ledge 12 by a distance substantially equal to the width of the tie rack 36. The lower edge of the lowermost bar 37 of the tie rack 36 rides on the roller 52 which has a flange 53 to prevent outward displacement of said bar. The upper bar 37 is also restrained from outward displacement by means of a flange 54 desirably struck out from the portion of ledge 12 aligned with roller 52 and extending over the upper edge of bar 37.

Thus the tie rack is free to move longitudinally with respect to the plate yet is restrained from outward displacement therefrom.

To mount the unit, as shown in Figs. 1 to 4, the plate 11 is positioned to the rear of the innermost panel 56 of the pair of sliding panels 56, 57 of a closet. The arm 22 of bracket 21 is affixed to one of the side edges of the panel 56 as by screws 58 and the arm 31 of bracket 25 is affixed to the other side edge of the panel 56, the sliding mount of arm 27 of bracket 25 in channel 16 permitting adjustment of the position of arm 27 depending upon the width of the panel 56.

With the plate 11 thus mounted, by reason of the ledge 12, sufficient space will be provided between the rear surface of panel 56 and plate 11 to accommodate the tie rack 36 with ties thereon and neither the ties nor the

installation will interfere with normal closing of the sliding panels, either to the position shown in Fig. 2 or that shown in Fig. 4.

To utilize the tie rack **36** assuming that the panels **56, 57** are in the position shown in Figs. 1 and 3, it is merely necessary to slide the tie rack to the right as shown. Thus the tie rack will extend laterally from plate **11** across the open space between the side of the closet and the open panels, so that access to said tie rack is afforded.

The embodiment shown in Fig. 9 is similar in many respects to that shown in Figs. 1 to 8 and corresponding parts have the same reference numerals primed.

In this embodiment, instead of a tie rack, a belt hanger **61** is slidably mounted on plate **11'**. The belt hanger comprises an elongated bar **62** substantially rectangular in cross section which may be formed by a wooden section **63** with a metal cover **64**, the latter completely encasing the wooden section and having a flange **65** extending beyond the lowermost longitudinal edge thereof.

The undersurface **66** of the bar **62** has a plurality of spaced openings **67** in each of which is frictionally retained the end of a hook member **68**. The bar **62** is slidably mounted on the plate **11'** by means of a rivet extending through a longitudinal slot, similar to the rivet **47** and slot **49** mounting the tie rack **36** shown in Fig. 1. The flange **65** rides on a roller **52'** rotatably mounted on plate **11'** and which has spaced flanges **53'** between which flange **65** is positioned to prevent outward displacement of bar **62**. The upper edge of bar **62** is restrained from outward displacement by a flange **54'** similar to flange **54** shown in Fig. 8.

As the mounting means for plate **11'** is identical to that shown in Figs. 1 to 8, it will not be further described.

With the constructions above described, the slidably mounted members may readily be secured to the sliding panel of a closet and will not interfere with normal sliding movement of such panels. The slidably mounted members may readily be extended for use when the panels are open and as readily retracted to afford full access to the closet through the space provided by the open panels.

As many changes could be made in the above constructions, and many apparently widely different embodiments of this invention could be made without departing from the scope of the claims, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A unit of the character described for mounting on the rear of a sliding panel, comprising a substantially rectangular supporting plate having a ledge extending outwardly at right angles from one of the surfaces thereof at one of its edges, a mount rising from the inner edge of said ledge, in a plane parallel to the plane of said supporting plate, an arm extending at right angles from said mount at one end thereof, an L-shaped member having a portion thereof slidably supported on said mount near the other end thereof and an arm at its outer end extending at right angles from said mount parallel to the first arm, an elongated article carrying member and means to mount said article carrying member below

the ledge on the surface of said supporting plate from which the ledge extends for slidable movement of said article carrying member with respect to said plate, said plate extending beyond the edge of the article carrying member remote from the ledge, the width of said ledge being greater than the thickness of said article carrying member to space the latter from said sliding panel, whereby the articles mounted on said article carrying member will be suspended between said supporting plate and the rear of the said sliding panel.

2. The combination recited in claim 1 in which said ledge has a strip struck out therefrom adjacent one end, said strip extending over the upper edge of said article carrying member to restrain lateral displacement thereof away from said plate.

3. The combination recited in claim 1 in which said ledge has a strip struck out therefrom adjacent one end, said strip extending over the upper edge of said article carrying member to restrain lateral displacement thereof away from said plate, a roller mounted on said plate adjacent one end thereof, the lower edge of said article carrying member riding on said roller, means being provided to prevent lateral displacement of the lower edge of said article carrying member away from said supporting plate.

4. The combination recited in claim 1 in which the means slidably mounting said article carrying member comprises a rivet affixed at one end to one end of said article carrying member and extending at right angles therefrom through an elongated slot in said supporting plate, said slot extending parallel to and positioned adjacent said ledge, said ledge having a strip struck out therefrom adjacent one end, said strip extending over the upper edge of said article carrying member to restrain lateral displacement thereof from said plate, a roller mounted on said plate adjacent one end thereof, the lower edge of said article carrying member riding on said roller, means being provided to prevent lateral displacement of the lower edge of said article carrying member away from said supporting plate.

5. The combination recited in claim 1 in which said article carrying member comprises a pair of spaced parallel bars having a plurality of article carrying members mounted at spaced intervals between said bars.

6. The combination recited in claim 1 in which said article carrying member comprises an elongated bar and a plurality of article carrying members are mounted in the lower edge of said bar and depend therefrom.

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