Aug. 8, 1933. J. J. KNAPE 1,921,828

EXTENSION MOUNTING FOR GARMENT CARRIERS

Filed Feb. 16, 1931

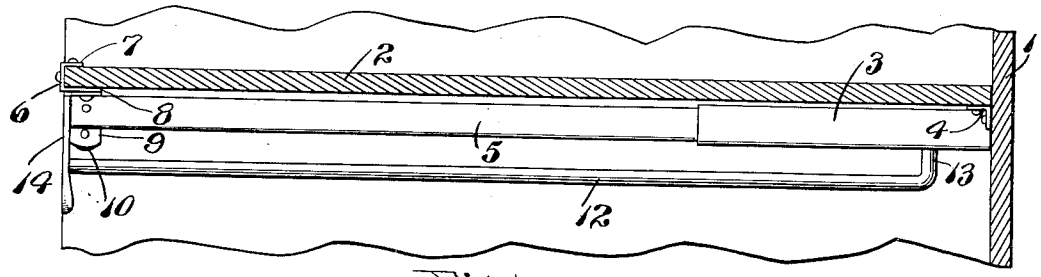


Fig. 1.



Fig. 2.

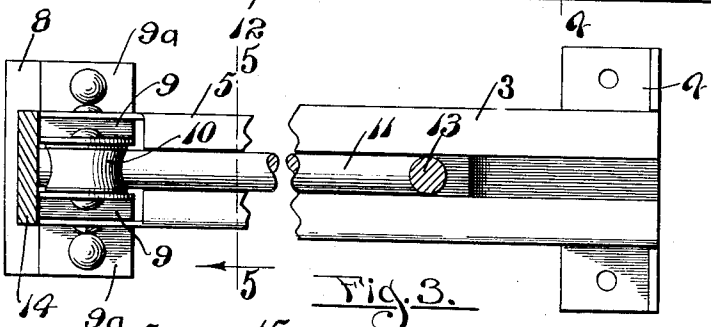


Fig. 3.

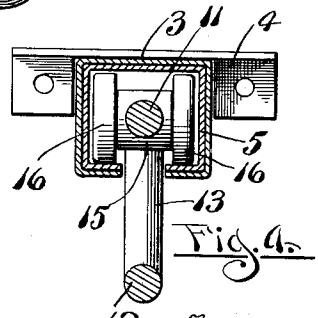


Fig. 4.

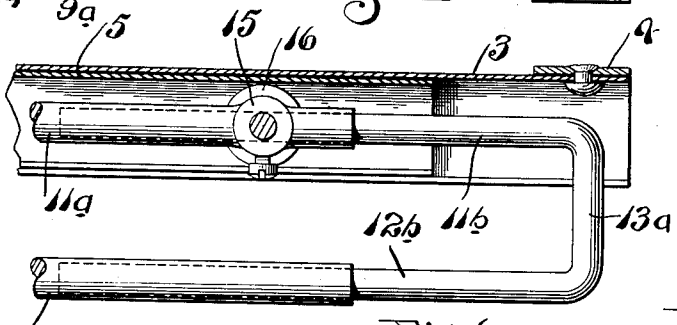


Fig. 6.

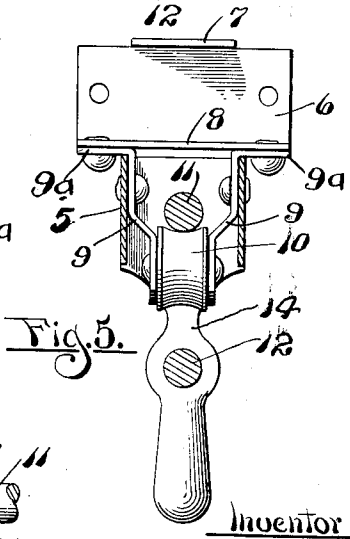


Fig. 5.

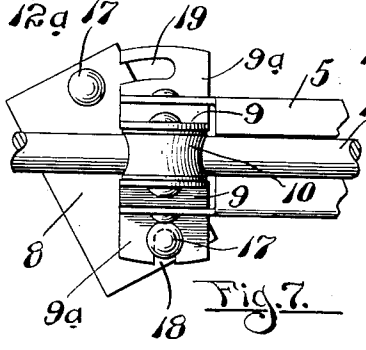


Fig. 7.

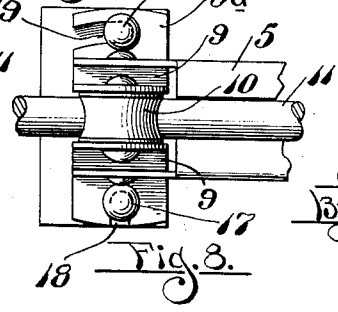


Fig. 8.

Inventor
Joseph J. Knape
By Liverance and Van Antwerp
Attorneys

Patented Aug. 8, 1933 1,921,828

UNITED STATES PATENT OFFICE

1,921,828

EXTENSION MOUNTING FOR GARMENT CARRIERS

Joseph J. Knape, Grand Rapids, Mich., assignor to Knape & Vogt Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan

Application February 16, 1931. Serial No. 516,103

3 Claims. (Cl. 312—177)

This invention relates to an extension mounting for garment carriers.

Garment carriers of the telescoping extension type are used in wardrobes, cabinets, closets in homes and other places to carry garment hangers from which, in turn, garments are suspended. The depths of wardrobes and closets vary greatly and heretofore the manufacturer of said extension carriers has been obliged to carry many different models and sizes of different lengths, there being a different length model for each variation of two inches in depth of the closet or wardrobe in which the device was placed. This also necessitated the seller of the carriers having a full and complete line of different lengths on hand to supply the calls for them.

In the present invention, the primary object and purpose of the same is to make an extension mounting for the garment carrier which will permit the production of fewer models and at the same time not interfere with the installation of the same in wardrobes or closets having a considerable range between the maximum and minimum depths of wardrobe or closet which a particular model or length of carrier will take care of.

The extension mounting for the garment carrier is for the upper fixed supporting member on which a movable carriage from which the garment hangers are immediately suspended is mounted. The invention contemplates that this movable carriage and upper supporting member therefor shall be made the same as previously; or, as another object of the invention, if desired, the movable carriage member may also be made of an extensible character so as to extend the same like the extension mounting for the upper fixed supporting member of the device permits extension or contraction of the device for application to different depths of wardrobes or closets.

A still further object of the invention is to provide a novel, simple and effective means for readily mounting the extension garment carrier so as to require little or no use of tools in the installation of the same in a wardrobe or closet.

The invention having the objects and purposes stated, as well as many others, may be understood from the following description taken in connection with the accompanying drawing, in which,

Fig. 1 is a fragmentary side elevation and section illustrating the extension mounting for garment carriers of my invention.

Fig. 2 is a fragmentary vertical section through the rear end portion of a garment carrier and the extension mounting therefor on an enlarged scale.

Fig. 3 is a fragmentary under plan view and partial horizontal section of the device of my invention.

Fig. 4 is a transverse vertical section on the plane of line 4—4 of Fig. 2, looking in the direction indicated.

Fig. 5 is a fragmentary vertical section on the plane of line 5—5 of Fig. 3.

Fig. 6 is a view similar to that shown in Fig. 2, in which the movable carriage member is of extensive character, and

Figs. 7 and 8 are under plan views of the front end portion of the garment carrier showing the manner in which it may be detachably connected with a front supporting bracket which in turn is secured to an overhead support.

Like reference characters refer to like parts in the different figures of the drawing.

The closet or wardrobe, indicated at 1, is usually supplied with a horizontal supporting shelf 2 underneath which the extension garment carrier is to be mounted. In my construction the elongated extension mounting 3 is at the back of the closet or wardrobe underneath said shelf and is of a substantially tubular form rectangular in cross section and longitudinally slotted at its lower side. It carries a bracket 4 of angle iron, preferably, at its rear end which may be secured by means of screws or other suitable fastenings to the back of the wardrobe or closet and the underside of shelf 2.

The extension carrier, which is to be mounted within the closet, comprises a fixed supporting member 5, also substantially of tubular form and rectangular in cross section, slotted lengthwise at its lower side and of a size such that it may be telescoped into the extension mounting member 3. The upper fixed supporting member 5 is adapted to be connected at its front end to a supporting fixture of metal which may be secured at the front edge of the shelf 2. This fixture is of flat metal having a vertical web 6 lying against the front edge of the shelf, an upper rearwardly turned horizontal lip 7 extending over the upper side of the shelf and a lower rearwardly turned horizontal flange 8 at the underside of the shelf; and this supporting fixture is attachable to the shelf 2 by means of screws or other suitable fastenings.

At the front end of the member 5 of the device two depending brackets 9 of the shape best shown in Fig. 5 are disposed, one immediately within each side of the member 5 and formed with horizontal flanges 9a at their upper ends lying beneath and secured to the flange 8 of the fixture

described. The lower ends of the brackets 9 are bent inwardly toward each other but spaced apart and have a roller 10 between their lower end portions mounted on a suitable pintle extending between the same.

The movable carriage member of the garment carrier may be made of a continuous length of rod having an upper side 11 which lies and is concealed within the member 5, and rides over the roller 10, a lower parallel side 12 over which the garment hangers are hooked, and an integral vertical connecting member 13 at their rear ends, the front ends of the parts 11 and 12 being connected to a handle member 14 which may be grasped to draw the carriage member outwardly or push it inwardly.

The rear portion of the carriage member is supplied with rollers to support and carry the same. A block 15 is mounted on the upper member 11 of the carriage through which it passes and at each end carries a roller 16, one at each side of the lower longitudinal slot of the member 5 and riding on the flanges thereof at each side of said slot. It is evident that the carriage may be readily pulled out or push in, the rollers carrying the same eliminating friction to a large degree.

With this construction the garmet carrying device may be mounted in closets or wardrobes having various depths as the length of the extension mounting 3 permits a range of adjustment so that one size of garment carrying device with an extension mounting therefor at the rear end will supply several depths of closets or wardrobes within the limits which the length of the extension mounting will take care of.

It is also contemplated in my invention that the carriage member described may be of an extensible character in which case the upper and lower members 11*a* and 12*a* of the carriage (Fig. 6) are of tubular material and a U-shaped extension made of single length of rod and having an upper member 11*b* and a lower member 12*b* connected by a vertical tie 13*a* may be inserted into the rear ends of the tubular members 11*a* and 12*a* to a greater or lesser extent and thereby adjust the length of the carriage which supports and carries the garments on garment hangers suspended therefrom. Thus the tie 13*a* may be made to serve as a stop and position the handle member 14 in an accessible, definite and convenient position whenever the carrier is in its closed position.

In Figs. 7 and 8 a construction is illustrated wherein the brackets 9, which connect the front end of the supporting member 5 with the shelf fixture at the front edge thereof, are so constructed as to be readily detachable from said fixture. The lower side of the flange 8 of the fixture is provided with two depending headed pins or rivets 17 spaced from each other and the flanges 9*a* of the brackets 9 are formed with slots 18 and 19 respectively, best shown in Fig. 7. The slot 19 is of arc shape, as shown, so that the shelf bracket may be applied as shown in Fig. 7 and then turned to the position shown in Fig. 8 wherein the headed rivets or pins 17 will connect the flanges 9*a* of the brackets 9 detachably with the shelf fixture.

The invention described is one of very practical value. As previously stated it permits the reduction of numbers of models to a considerable degree thereby reducing manufacturing cost in the factory and carrying charges to the seller of the garment carriers who does not need to have so many models on hand to supply the wants of users. The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. In a construction of the class described, a cabinet, a hollow tubular elongated mounting secured at the back of and extending forward from said back of the cabinet, an extensible garment support having a relatively fixed upper member and a garment carrier mounted thereon for movement in and out of the cabinet, said fixed member being telescopically received into said mounting, a bracket attached to the front portion of the cabinet, said bracket having spaced apart depending headed pins and said fixed upper member of the extensible garment support having a bracket at each side thereof, each with an outturned flange, one flange on one bracket being slotted inwardly from its outer edge and the other flange of the other bracket having an arc shaped slot therein extending inwardly from the side edge of the bracket flange.

2. In an article of the class described, an extension mounting, a supporting member slidably mounted in said extension mounting, means on the free end of the supporting member for attaching the supporting member to a support, said extension mounting and said supporting member being telescopically engaged with each other and having alined slots along their lower sides, a garment carrier extending through said slots and having a lower side extending in parallelism with the said slots, means located between the garment carrier and the portions of the supporting member on either side of said slots for supporting the same, a handle member attached to the said garment carrier, and adjustable stop means extending rearwardly from said garment carrier whereby the innermost position of the handle member may be determined.

3. In an appliance of the type set forth, a cabinet, a garment carrier, means for supporting the inner end of said carrier, a bracket attached to the front portion of the cabinet, said bracket having spaced apart depending headed pins and said garment carrier having a bracket at each side thereof, each with an outturned flange, one flange on one bracket being slotted inwardly from its outer edge and the other flange of the other bracket having an arc shaped slot therein extending inwardly from the side edge of the bracket flange.

JOSEPH J. KNAPE.