

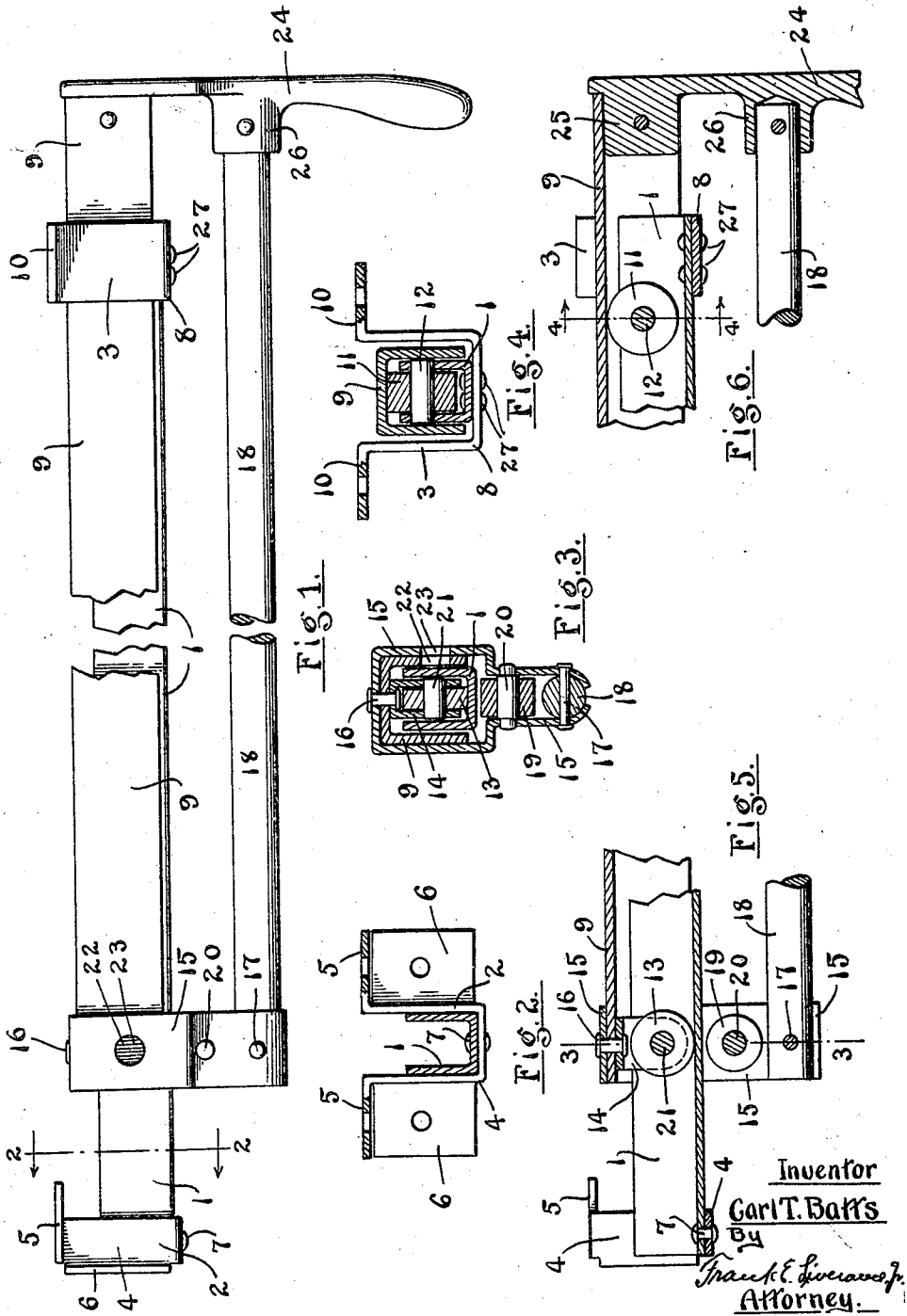
June 26, 1928.

1,674,758

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EXTENSION GARMENT SUPPORT

Filed April 5, 1923



Patented June 26, 1928.

1,674,758

UNITED STATES PATENT OFFICE.

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EXTENSION GARMENT SUPPORT.

Application filed April 5, 1923. Serial No. 630,036.

This invention relates to improvements in extension garment supports and more particularly to such supports intended for use in wardrobes, clothes closets, etc., and is of the type comprising a fixed track member and a rod on which garments may be hung, depending from the said track member and longitudinally slidable thereon.

The object of this invention is to provide a device of this character which will be exceedingly simple in construction and assembly and which will embody the qualities of strength and rigidity and will be easily slidable when loaded to its full capacity.

The device is provided with various novel features of construction and arrangement, hereinafter more fully described and particularly pointed out in the claim reference to be had to the accompanying drawings in which:

Fig. 1 is a side elevation of the garment hanger with a portion removed from the center thereof.

Fig. 2 is a transverse sectional elevation of the rear end of the track member and supporting bracket thereon taken on the line 2-2 Fig. 1.

Fig. 3 is a transverse sectional elevation on the line 3-3 of Fig. 5 showing the rear roller group and associated members.

Fig. 4 is a transverse sectional elevation on the line 4-4 of Fig. 6 showing the forward supporting roller and front hanger bracket.

Fig. 5 is longitudinal sectional elevation of the rear portion of the device and,

Fig. 6 is a longitudinal sectional elevation of the front portion of the device.

Like reference numerals apply to like parts in all of the figures.

1 represents the track member which is of channel construction and is arranged with open side upward. The channel 1 is provided at its rear end with a hanger bracket 2 and at its forward end with a hanger bracket 3, each of said brackets being provided with flanges with screw holes therein by which they may be attached to the under side of a horizontal supporting member, such as the top of a wardrobe or a shelf in a closet. The rear hanger bracket 2 comprises a stirrup member 4 which passes under the channel 1 and upward on each side thereof and has the latterly extending flanges 5 at its upper end which engage the under surface of a supporting member as above de-

scribed and in addition the vertical flanges 6 formed integral with the stirrup member and adapted to engage a vertical surface such as the back of a wardrobe, and screw holes are provided in the flanges to permit the passage of screws by which the hanger may be attached.

The hanger is fastened to the channel by means of a single rivet 7 which passes through the bottom of the channel and the lower portion of the stirrup 4.

The front hanger 3 is likewise formed like a stirrup having a portion 8 which extends beneath the channel 1 and thence turned upward and spaced some distance away from the sides of the channel to permit insertion of the sliding channel 9. The hanger 3 is provided at its upper end with laterally extending flanges 10 by which it is attached to the under side of a supporting member.

The sliding channel 9 from which the garment rod depends in a manner hereafter described is arranged with its open side downward and embraces the fixed channel 1. This sliding channel 9 is adapted to move longitudinally over the channel 1 and is supported at its forward end by a roller 11 mounted near the forward end of the channel 1. The bearing pin 12 on which the roller 11 is mounted, is supported at its respective ends by the vertical walls of the channel 1, holes being provided in the said walls through which the pin is inserted. The pin is held in place after the device is assembled by the side walls of the channel 9 which embraces the channel 1 and prevent the pin 12 from moving endwise out of place.

The rear end of the channel 9 is provided with a roller 13 mounted in a clip 14 which is riveted to the inside of the top portion of the channel and extends downward between the vertical walls of the channel 1, and the roller 13 bears against the bottom of the said channel 1.

A bracket 15 embraces the rear end of the sliding channel 9 extending over the top thereof and downward adjacent its sides and is fixed to the said channel 9 by the same rivet 16 which holds the roller clip 14 in place. The downward extending ends of the bracket 15 are offset toward each other beneath the channel 1 and thence extending downward and are attached by means of a rivet 17 to the rear end of the garment supporting rod 18 which is supported thereby.

An upward thrust roller 19 is located between the lower ends of the bracket 15 and beneath the channel 1 being mounted on a pin 20, both ends of which are shouldered and inserted in holes in the bracket 15. The bearing pin 21 on which the roller 13 is mounted is inserted through holes in the clip 14, and is retained in place by the side walls of the channel 1 which closely embraces the side clip and prevents the pin 21 moving endwise out of place.

In order to assemble the structure the holes 22 and 23 in the channel 9 and bracket 15 respectively are provided opposite the pin 21 so that it may be inserted there-through from outside the structure before the channel 1 is placed in operative position.

At the extreme forward end of the device the handle member 24 is located and is provided with a plug 25 which is inserted into the forward end of the channel 9 and riveted in place, and it is also provided with a boss 26 provided with a hole to receive the forward end of the rod 18 which is also riveted in place.

The structure is designed with simplicity of construction and cheapness of manufacture in view. The channel members 1 and 9 may be had of standard size and shape, the only machine operation necessary to prepare them for assembling being the forming of several holes which may be quickly punched.

The brackets 2, 3 and 15 are of sheet metal formed by dies in a very simple and cheap manner, the handle member 14 is preferably a casting requiring very little machine work and it may be made a die casting which is completely finished in the casting operation and requires no machine work.

The rod 18, and the rollers and bearing pins are all of simple and of ordinary construction.

The device is very easily assembled in the following manner:

The bracket 3 is attached to the channel 1 preferably by two rivets 27 so that it will not swivel when in place and the bracket 15 is attached to the rear end of the channel 9 by the rivet 16, the roller clip 14 being also attached inside the channel 9 by the same rivet at the same time. The roller 11

is mounted in place on the pin 12 in the channel 1 and the roller 13 is placed in position in the clip 14 and the pin 21 is inserted through the holes 22 and 23, after which the channels 9 and 1 are assembled one embracing the other. After these members are assembled neither of the pins 21 or 12 can become displaced. The lower ends of the bracket 15 are spread apart sufficiently to insert the roller 19 and pin 20 after which they are brought together against the rod 18 and riveted in place by the rivet 17. The handle member 24 is then placed in position and riveted and the bracket 21 then riveted in place which completes the assembling of the device.

It is preferred to make the relative dimensions of the hangers 2 and 3 such that the rear end of the channel 1 will hang slightly lower than the forward end thereof, so that the normal tendency of the sliding member will be to move by gravity to its retracted position.

I claim:

An extension garment support comprising a fixed channel member arranged open side upward, a supporting bracket at each of its respective ends, an inverted channel member arranged open side downward and embracing the fixed member, a roller mounted in the fixed member near its forward end on a bearing pin which is retained by the vertical walls of the sliding member, a roller supporting clip within the sliding member near its rear end extending into the fixed member, a roller mounted in the clip on a bearing pin which is retained by the vertical walls of the fixed member, a bracket embracing the rear end of the sliding member and depending downward therefrom, a rivet extending through said bracket, sliding member and roller clip to fasten the three parts together, an upward thrust roller mounted on the said bracket beneath the fixed member, a handle member fastened to the forward end of the sliding member and depending therefrom and a garment supporting rod supported at its rear end by said bracket and at its forward end by said handle member.

In testimony whereof I affix my signature.
CARL T. BATTIS.