June 8, 1926.

1,587,676

W. PATTERSON

GARMENT HANGER

Filed Jan. 17, 1925 2 Sheets-Sheet 1

Fig. 1.

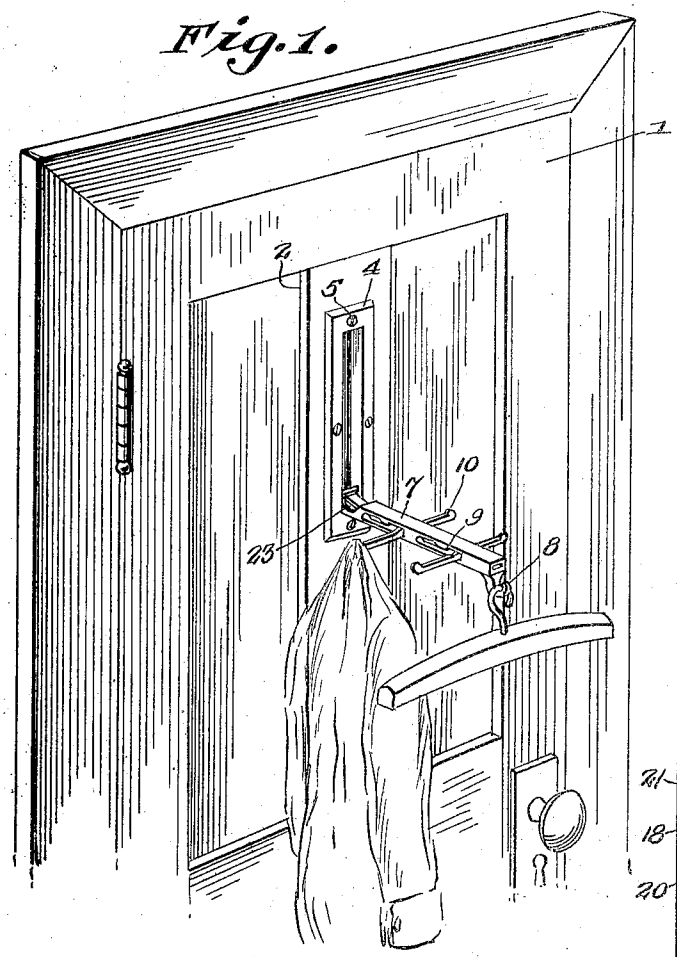



Fig. 2.

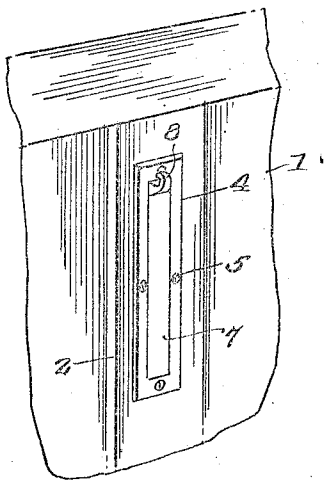



Fig. 7.

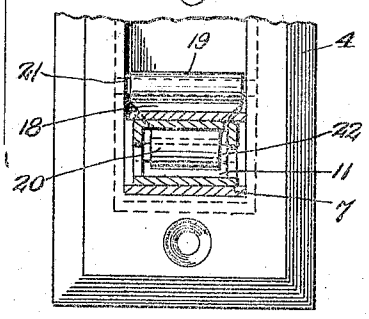



Fig. 9.

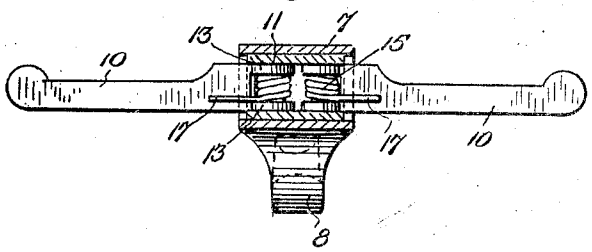
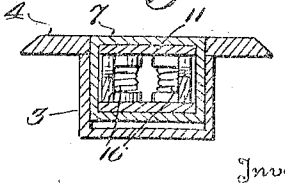



Fig. 8




Inventor

William Patterson,

By O'Connell & O'Connell

Attorneys

June 8, 1926.

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W. PATTERSON

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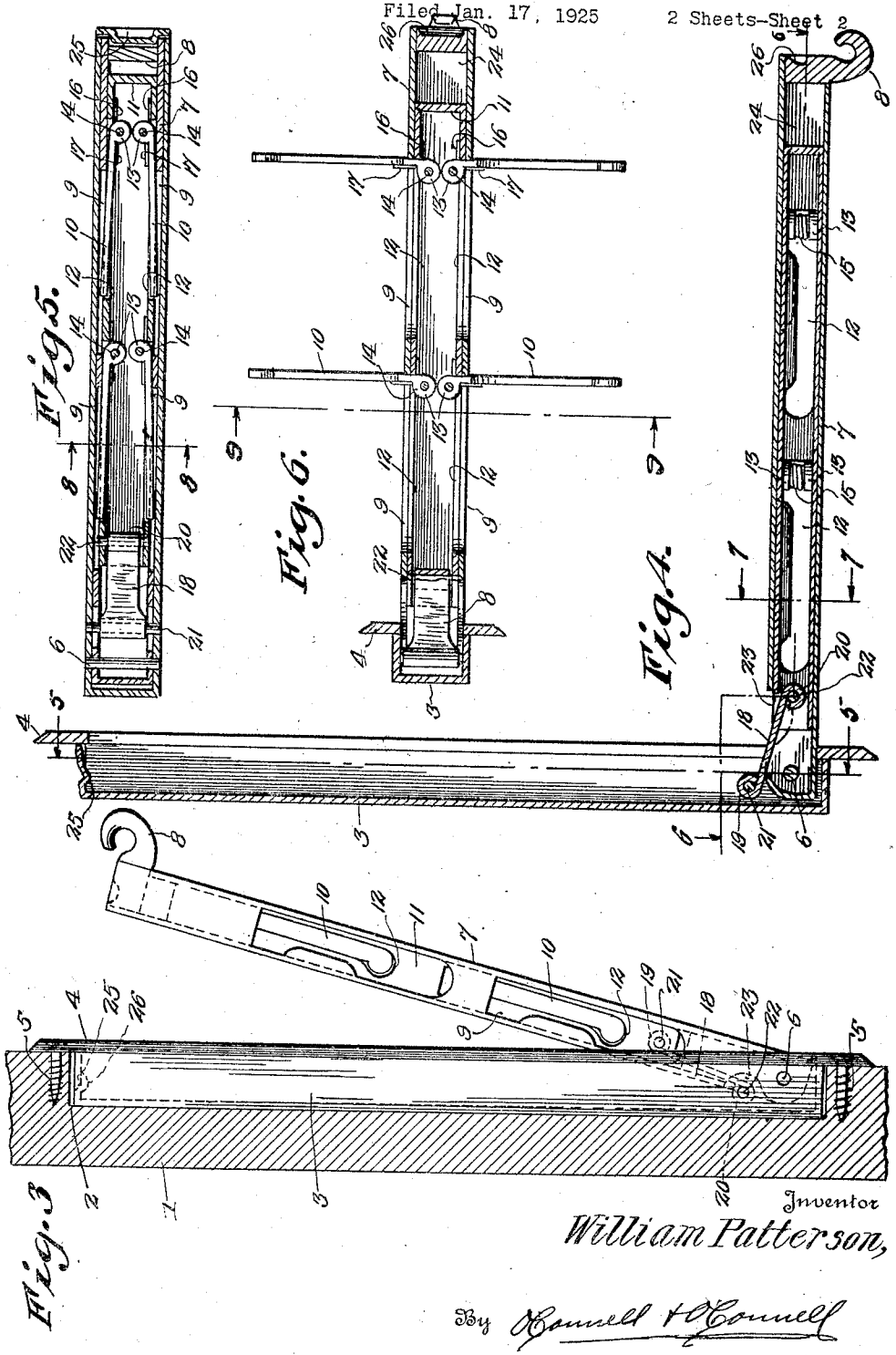


Fig. 5.

Fig. 6.

Fig. 4.

Fig. 3

Inventor

William Patterson,

By Connell & Connell

Attorneys

Patented June 8, 1926. 1,587,676

# UNITED STATES PATENT OFFICE.

WILLIAM PATTERSON, OF PHILADELPHIA, PENNSYLVANIA.

## GARMENT HANGER.

Application filed January 17, 1925. Serial No. 3,012.

This invention has reference to garment hangers and particularly to a small compact hanger adapted to provide a neat, pleasing, and ornamental attachment for a door or other support and which is foldable into and out of operative position.

The invention further provides the garment hanger in which the garment-supporting arms are caused to automatically swing into and out of position as they are moved out of and into the case.

Other objects and advantages of the invention may be apparent from the following detailed description thereof, reference being had to the accompanying drawings, wherein:—

Figure 1 is a perspective view of a section of a door or other support to which the invention is shown applied and in open position,

Figure 2 is a similar view with the invention shown in closed position,

Figure 3 is a sectional view of the door illustrating the manner in which the device is attached thereto,

Figure 4 is an enlarged sectional view of the garment hanger,

Figure 5 is a section on line 5—5 of Figure 4,

Figure 6 is a section on line 6—6 of Figure 4,

Figure 7 is a section on line 7—7 of Figure 4,

Figure 8 is a section on line 8—8 of Figure 5, and

Figure 9 is a section on line 9—9 of Figure 6.

In the drawings, 1 designates the door of a closet or clothes press having a recess 2 formed therein to accommodate the rectangular casing 3 of the garment hanger. The casing is provided with an attaching flange 4 through which are inserted the fastening screws 5 by which the casing is secured to the door. Fitting snugly within the casing 3 and turning on pivot 6 at the lower end thereof is a hollow rectangular support bar 7 having its free end equipped with a depending hook 8 serving as a finger grip for swinging the support bar into and out of the casing. The hollow support bar is provided along each side with longitudinally spaced openings 9 to allow for the outward and inward swinging movement of hanger arms 10. Hanger arms 10 are carried by a hollow rectangular bar 11 on the inside of the support bar 7 and arranged to slide back and forth within the support bar, as hereinafter explained.

Each hanger arm operates through a correspondingly spaced opening 12 in the side of the slidable carrier bar 11 and is provided with upper and lower bearing lugs 13 which turn on a vertical pivot 14 on the inside of the carrier bar. A spring 15 encircles the pivot 14 between the lugs with one terminal 16 bearing against the inside of bar 11 and the other terminal 17 pressing outwardly against the inner end of the hanger arm. Hence, the arm is subjected to the continuous pressure of the spring which thus serves to swing the arm outwardly and backwardly whenever the openings 9 and 12 are brought into relative alignment by the shifting of the carrier bar 11. As shown in Figure 6, the rear edges of openings 9 and 12 serve as abutments for the hanger arms and limit the backward swing of the arms so that the latter, in their outermost positions, extend substantially at right angles.

The shifting of the carrier bar 11 simultaneously with the raising and lowering of the support bar 7 is effected by suitable means, such as a coupling member 18 connecting the carrier bar 11 to the inside of casing 3. As shown in top plan in Figure 5, the coupling member 18 may be a short, flat, metal plate having its opposite ends rolled to provide bearings 19 and 20. Bearing 19 encircles a fixed pivot 21 which is fastened to the side of the case and above the pivot 6 of the support bar. Bearing 20 encircles a fixed pivot 22 at the inner end of the carrier bar 11, both the support bar 7 and the carrier bar 11 being cut away, as shown at 23, to accommodate the plate 18. When the support bar extends horizontally from the casing, the carrier bar 11 has its front terminal positioned an appreciable distance inwardly from the outer end of the support bar, as indicated by the space 24. At this time, the hanger arms 10 project outwardly on opposite sides of the support bar and may be utilized to support shirts, lingerie, and other articles of apparel, as illustrated in Figure 1. The hook 8 may also be used as a support for a conventional coat hanger.

When the device is no longer in use, the support bar is swung upwardly into the case and as it moves upwardly, the carrier bar 11 is caused, by reason of the plate 18, to slide forwardly within the support bar, causing the hanger arms 10 to be drawn in through openings 9 and 12; the operation being so arranged that all of the hanger arms are caused to be swung in through the sides of the support bar before the latter has completely entered the case 3. Consequently, when the device is closed, as shown in Figure 2, no parts of the hanger arms or carrier bar are visible. When the support bar is moved downwardly from the casing, the coupling member 18 causes the carrier bar 7 to slide toward the inner or pivoted end of the support bar so that the hanger arms will automatically swing outwardly into supporting position as soon as openings 9 and 12 are in line. The device is then ready for use.

Suitable catch means are provided for retaining the support bar within the case. As shown in Fig. 4, the upper wall of the case is provided with a depressed spring portion 25 which is adapted to engage in a suitable notch 26 formed in hook 8. As will be obvious, the spring catch 25 engages in notch 26 as the outer end of the support bar moves into the case and the pressure of the spring catch is sufficient to hold the support bar within the case in the absence of any outward pull on the hook.

From the foregoing it is thought that the operation and advantages of the invention will be readily understood and, as will be obvious, various modifications and alterations in the invention may be resorted to within the scope of the appended claims.

Having thus described the invention, what I claim is:—

1. A garment hanger including a case, a support bar pivoted to the case for swinging movement into and out of the same, a member slidable within the said support bar and having hanger arms adapted to project through openings in the side of the support bar, and means for causing the said slidable member to be shifted within the support bar during the opening and closing movement of the latter whereby the said hanger arms are automatically moved into and out of operative position.

2. A garment hanger including a case, a support bar pivoted to the case for swinging movement into and out of the same, a member slidable within the said support bar, said member and said support bar having openings, means for causing the said slidable member to be automatically shifted within the said support bar during the opening and closing movement of the latter, to bring the said openings into alignment when the support bar is out of the case and for causing the openings to become disaligned when the support bar is within the case, and spring-pressed hanger arms carried by the said slidable member, said hanger arms being adapted to spring outwardly through the said openings when the latter are in alignment.

3. A garment hanger including a case, a hollow support bar pivoted to the case for swinging movement into and out of the same, said support bar having openings in opposite sides, a member slidable within the said support bar, spring-pressed hanger arms carried by said member and normally tending to extend outwardly through the openings of the said support bar, and a connection between the case and the said slidable member operating to shift the said slidable member within the said support bar during the opening and closing movement of the latter, whereby the said hanger arms will be automatically moved into and out of the support bar as the latter is alternately moved into and out of the said case.

4. A garment hanger including a case, a hollow support bar pivoted to the case for swinging movement into and out of the same, said support bar having openings in opposite sides, a member slidable within the said support bar, spring-pressed hanger arms carried by the said slidable member for extension through the said openings of the support bar, and means for causing the said slidable member to be shifted within the support bar so that the arms will be positioned so as to be free to swing outwardly through the openings of the support bar when the latter is out of the case and caused to be swung into the support bar as the latter is moved into the case, said means consisting of a short coupling member having one end pivoted to the case above the pivot of the support bar and its other end pivoted to the said slidable member.

5. A garment hanger including a case, a hollow support bar pivoted to the case for swinging movement into and out of the same, said support bar having openings in opposite sides, a member slidable within the said support bar, spring-pressed hanger arms carried by the said slidable member for extension through the said openings of the support bar, and means for causing the said slidable member to be shifted within the support bar so that the arms will be positioned so as to be free to swing outwardly through the openings of the support bar when the latter is out of the case and caused to be swung into the support bar as the latter is moved into the case, said means including fixed pivots carried respectively by the said case and the said slidable member, and a short metal plate having its opposite ends rolled to provide bearings encircling the said fixed pivots.

6. A garment hanger including a case, a

support bar pivoted to the case for swinging movement into and out of the same, hanger arms associated with said support bar, a hook at the outer end of the said support bar, said hook providing a handle for moving the said support bar and serving, also, as a support for a coat hanger, and a spring catch provided in the upper end of the case and adapted to yieldingly engage in a notch in the said hook for retaining the said support bar within the case when the support bar is swung into the same.

In testimony whereof I affix my signature.

WILLIAM PATTERSON.