Dec. 15, 1953 L. W. WALKER 2,662,675

GARMENT HANGER

Filed Oct. 15, 1948

Fig. 1.

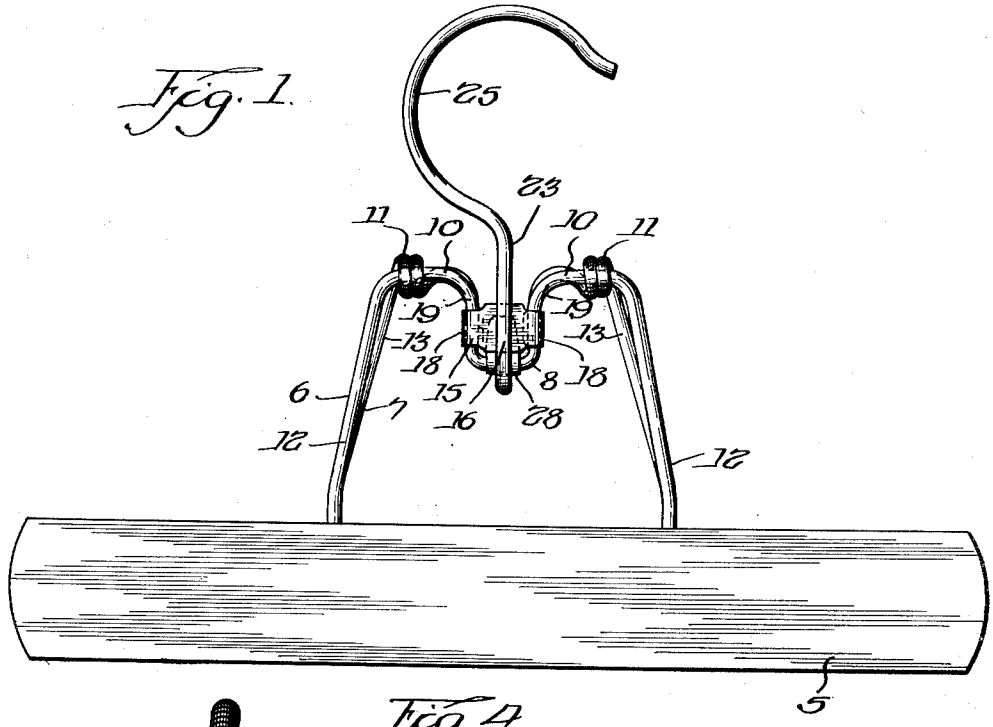


Fig. 4.

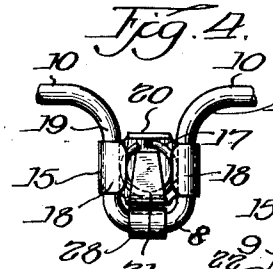


Fig. 3.

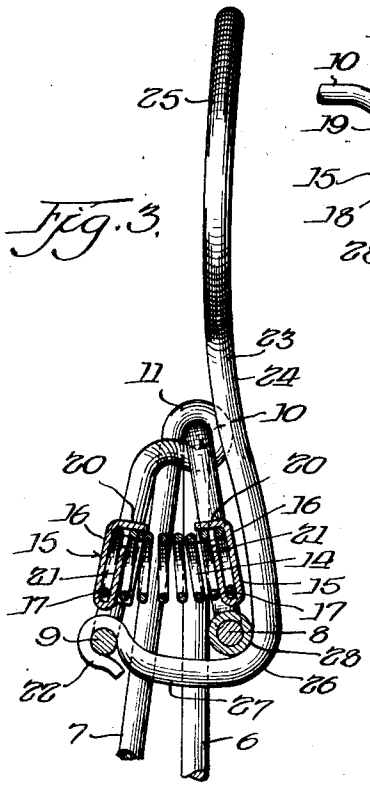
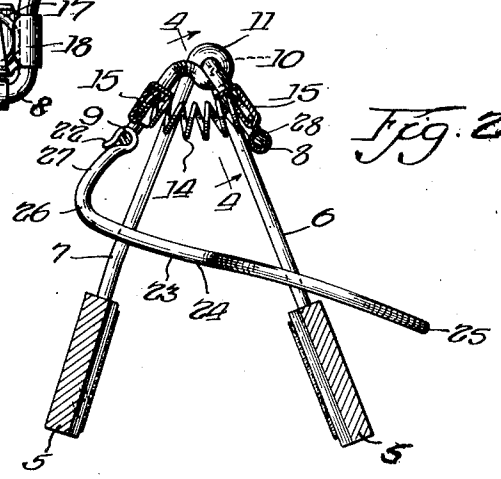


Fig. 2.



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2,662,675

GARMENT HANGER

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Application October 15, 1948, Serial No. 54,629

8 Claims. (Cl. 223—96)

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This invention relates to an improvement in garment hangers of the character that employs a pair of clamping bars and hinged together supporting members therefor, together with a lever in the form of a hook member pivotally connected to one supporting member and constructed and arranged to be engaged with the other supporting member, whereby to clamp the clamping bars upon a garment and suspend the same.

Some garment hangers now on the market employ a spring to urge the clamping bars apart when permitted to do so by the lever so as to enable the garment to be inserted between the clamping bars, and the patent to Deknatel No. 1,955,792, dated April 24, 1934, discloses an example of a garment hanger of this type. However, the spring shown in this patent is weak and the arms thereof are likely to be broken off if the clamping bars are spread apart more than is necessary.

One of the objects of this invention is to improve upon garment hangers of the type disclosed in the aforesaid patent.

Another object is to provide a coiled expansion spring between two supporting members together with substantial clips for attaching the end coils of the spring to the two supporting members, whereby there is no likelihood that the spring will be broken in case the clamping bars are spread apart more than is necessary.

Another object is to provide clips to take the pressure exerted by the spring and to provide simple means for attaching the spring to said supporting members.

Other objects and advantages will appear in the course of this specification, and with said objects and advantages in view, this invention consists in the several novel features hereinafter fully set forth and more particularly defined in the appended claims.

The invention is clearly illustrated in the drawing accompanying this specification in which:

Fig. 1 is a side elevation of a garment hanger embodying a simple form of the present invention.

Fig. 2 is a central vertical cross section thereof showing the clamping bars spread apart.

Fig. 3 is an enlarged central vertical fragmental cross section showing the supporting members in the position occupied when the clamping bars are held together by the lever. And

Fig. 4 is a fragmental longitudinal section taken on the line 4—4 of Fig. 2.

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Referring to said drawing which is merely illustrative of one embodiment of the present invention, the reference characters 5, 5 designate a pair of clamping bars between which a garment may be clamped in order to suspend the same. These bars are usually composed of flat strips of wood or other suitable material.

A pair of supporting members 6, 7 are provided for supporting the clamping bars and these supporting members may be composed of bent-up rods of relatively small diameter. Intermediate their ends, each rod is bent-up into a U shaped member or open loop 8 or 9 having arms 19, one pair being formed with aligned horizontal portions 10 and the other supporting member is coiled around the portions 10 as at 11 to provide a hinge connection between the two supporting members. From the aligned portions 10 and from the coils 11, each rod is bent to form two legs 12 or 13, the ends of which are tightly secured in holes that extend inward from one edge of the clamping bars.

A coiled expansion spring 14 extends between the two U shaped members, and is connected thereto by clips 15, preferably formed of sheet-metal struck up with suitable dies. Each clip has a flat body portion 16 against which an end coil 17 of the spring bears. Extending from the side edges of the body portion are wing members 18 which are curled about the arms 19 of the associated U shaped member, thereby providing a rigid connection between the clip and the U shaped member. From the upper edge of each clip projects a tongue 20 which overlies an end coil or two of the spring, and from the lower end of the body portion projects a second tongue 21 which is bent-up around the end coil 17 so as to confine the end coil between the body portion and tongue 21. Each end coil is therefore confined at its sides by the arms 19 of the U shaped member, and is confined at its top and bottom by the tongues 20, 21 so that there is no likelihood that either end coil of the spring will be detached from the U shaped member. Furthermore, despite any unusual separation of the clamping bars caused by pulling them apart, it will have no tendency to break the spring, but the latter will yield when its end coils are pulled apart an unusual distance within given limits.

For clamping the clamping bars upon a garment, an L shaped lever 23 is employed. This lever is flattened at one end and the flattened end is curled around the U bend of one U shaped member to form an eye 22. One arm 24 of the lever is extended to provide a hook 25 for sus-

pending the garment hanger upon a rod or other support which hook lies in a plane approximately parallel with the clamping bars when held closed by the lever. The bend 26 between the two arms 24, 27 of the lever is so located with respect to the pivotal connection between the lever and U bend of one of the U shaped members, that the said bend 26 engages the U bend of the other U shaped member when the clamping bars are closed by the lever. If desired a roller 28 may surround the U bend of the U shaped member which is engaged by the bend 26 of the lever. When clamping a garment between the clamping bars, the latter are first brought together upon the garment with one hand, and with the other hand, the lever is swung up into locking position with the U shaped members and therewith the clamping bars pressed toward each other thereby clamping the garment securely between the clamping bars.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence, I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. A garment hanger comprising a pair of clamping bars, two hinged together bent up bar supporting rods operatively mounted on the clamping bars and each formed with an open loop projecting downward from the hinge connection between the rods, a coiled expansion spring transverse to the hinge connection and extending between said open loops and operatively connected thereto and clips, one rigidly attached to each loop and operatively attached to an end coil of the spring, and an L-shaped lever hinged on one of said loops and adapted to engage the other whereby during the clamping operation the clamping bars are clamped together compressing the spring and when the lever is unlatched the bars are opened by the action of the spring.

2. A garment hanger comprising a pair of clamping bars, two hinged together bent up bar supporting rods operatively mounted on the clamping bars and each formed with a U shaped member projecting downward from the hinge connection between the rods, a coiled expansion spring transverse to the hinge connection and extending between said open loops and operatively connected thereto, and clips, one rigidly attached to each U shaped member and operatively attached to an end coil of the spring, whereby the spring is adapted to be compressed when the bars are clamped together and when the bars are released the force of the compressed spring causes the clamping bars to open.

3. A garment hanger comprising a pair of clamping bars, two hinged together bent up bar supporting rods operatively mounted on the clamping bars and each formed with an open loop projecting downward from the hinge connection between the rods, a coiled expansion spring transverse to the hinge connection and extending between said open loops and operatively connected thereto, and two clips, each having two wings adapted for attaching the clip to the bight portions of the loop to which it is affixed and two tongues adapted for rigidly attaching the end of the coils of the spring to the open loops.

4. A garment hanger comprising a pair of clamping bars, two supporting members therefor comprising two bent-up rods each formed with two legs the ends of which are secured respectively in said clamping bars, both of said rods being formed with U shaped members, one connected to its associated legs by aligned horizontal portions and the other rod being coiled around said aligned horizontal portions to provide a hinge, said U-shaped members depending beneath the said hinge, a coiled expansion spring transverse to said hinge and extending between the two U shaped members and operatively connected thereto, clips formed with wings secured to the two arms of each of said U shaped members and having upper and lower tongues engaging over an end coil of the spring, and a clamping lever having an eye pivotally secured on the U bend of one of the U shaped members and an arm to engage the U bend of the other U member to draw the two U shaped members toward each other, said lever terminating in a hook for supporting the hanger.

5. A garment hanger comprising a pair of clamping bars, two supporting members therefor comprising two bent-up rods each formed with two legs, the ends of which are secured respectively in said clamping bars, both of said rods being formed with U shaped members, one connected to its associated legs by aligned horizontal portions and the other rod being coiled around said aligned horizontal portions to provide a hinge, said U-shaped members depending beneath the said hinge, a coiled expansion spring extending between the two U shaped members and operatively connected thereto, clips, one secured to the two arms of each U shaped member and having tongues engaging over an end coil of the spring, and a clamping lever having an eye pivotally secured on the U bend of one of the U shaped members and an arm to engage the U bend of the other U member to draw the two U shaped members toward each other, said lever terminating in a hook for supporting the hanger.

6. The combination with a garment hanger comprising a pair of clamping bars adapted to be latched together and released, two hinged together bent up bar supporting rods operatively mounted on the clamping bars and each formed with an open loop projecting downward from the hinge connection between the rods, and a lever hinged on one of said loops and adapted to engage the other, of spring means comprising a helically coiled spring having its axis transverse to the hinge connection and operatively connected to each of the loops, and clip means including means affixed to each of the loops and securing means operatively connected to the opposite end coils of the spring, whereby the spring is adapted to be compressed when the clamping bars are latched together by the lever and upon release of the lever the action of the spring effects the release and opening of the clamping bars.

7. A garment hanger comprising a pair of clamping bars, two supporting members therefor comprising two bent-up rods each formed with two legs, the ends of which are secured in a clamping bar, each of said rods being formed with a U-shaped member, each of said U-shaped members having horizontal arms extending therefrom, said arms merging into the legs, the horizontal arms extending from one of said U-shaped members being coiled around the horizontal arms of the other of said U-shaped members to provide a hinge between the two supporting members, a

coiled expansion spring extending between the two U-shaped members and operatively connected thereto, clips, one for each U-shaped member, each clip having wings extended therefrom and curled around the U-shaped member, each clip having also a tongue extending over an end coil of the spring and an upwardly bent tongue engaging over said end coil of the spring, and a lever having an eye pivotally connected to the U bend of one U-shaped member, and arranged to be engaged with the bend of the other U-shaped member, whereby the lever is adapted to draw the clamping bars together and lock them, and upon release of the lever, the clamping bars are opened under the action of the spring.

8. A garment hanger comprising a pair of clamping bars, two bent-up rods forming supporting members and each formed with two legs, the ends of which are secured in a clamping bar, each of said rods being formed with a U-shaped member, each of said U-shaped members having horizontal arms extending therefrom, said arms merging into legs, the horizontal arms extending from one of said U-shaped members being coiled around the horizontal arms of the other of said U-shaped members to provide a hinge between

the two supporting members, a coiled expansion spring extending between the two U-shaped members and operatively connected thereto, and clips one for each U-shaped member, each clip having wings extended therefrom and curled around the associated U-shaped member, each clip having also two tongues extending over an end coil of the spring, and a lever having an eye encircling the U bend of one U-shaped member and arranged to be engaged with the other U-shaped member to move the clamping bars together, whereby the lever is adapted to draw the clamping bars together and lock them, and upon release of the lever, the clamping bars are opened under the action of the spring.

LLOYD W. WALKER.

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Number	Name	Date
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1,955,792	Deknatel	Apr. 24, 1934
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