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GARMENT HANGER ROD

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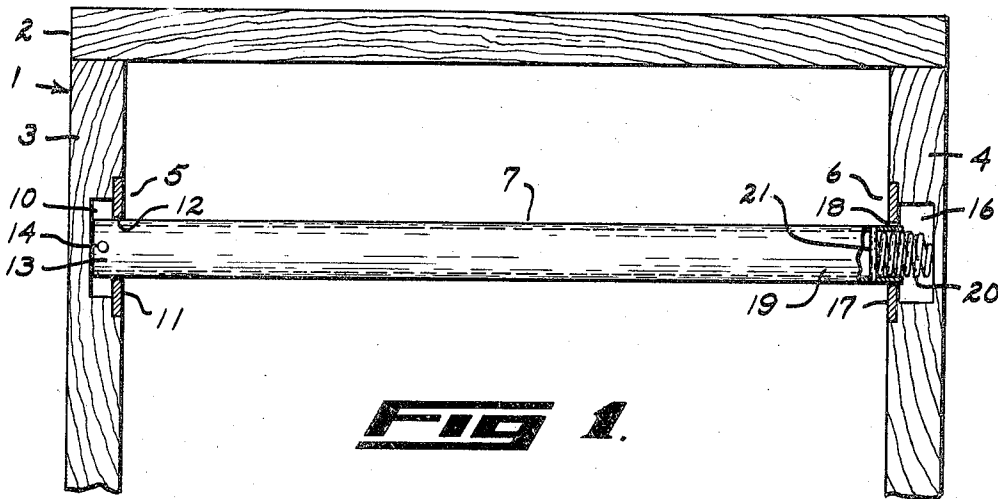


FIG 1.

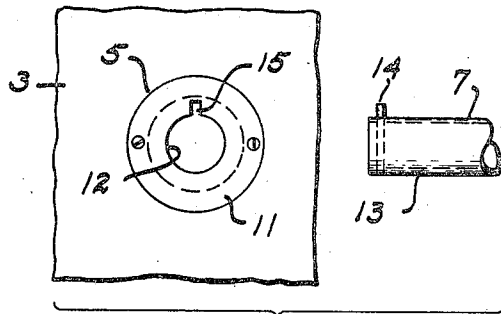


FIG 2.

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GARMENT HANGER ROD

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3 Claims. (Cl. 211-123)

1

This invention relates to garment display cases, and more particularly to a removable garment hanger rod for such cases.

It is the primary object of the invention to provide in garment display cases a hanger rod that is removable so that replacement, relocation, or repair of the rod may be had.

Another object is to provide a garment hanger rod that may be installed in either existing display cases or in new equipment.

Still another object is to provide a garment hanger rod that is removably supported in sockets having inner surfaces which are flush with the interior walls of the garment display case.

A still further object is to provide a garment hanger rod in which one end receives a compression spring for engagement within a socket to urge the rod to a supporting position in opposed sockets.

Still another object is to provide a hanger rod having a projection on one end thereof, and a cooperating end plate having a slot to receive such projection whereby the rod may be rotated after entering such plate and thereby restrain from removal except when the projection and slot are in mating relation.

The foregoing objects are primary objects which together with additional objects and advantages of the invention will be more fully apparent from the following description considered in connection with the accompanying drawings in which:

Fig. 1 is an elevational view partly in section of a garment display case in which a hanger rod embodying the invention is installed;

Fig. 2 is a detail showing the interlocking feature between the rod and one of the sockets in which the rod is mounted.

The embodiment shown in the drawings comprises a garment display case 1 having top 2 which overlies the side walls 3 and 4 of the case. In the walls 3 and 4, and in opposed relation, there are provided sockets 5 and 6 in which the garment hanger rod 7 is to be mounted. It is to be understood that a plurality of these sockets may be provided in a given case so that the rod 7, or a plurality of such rods, may be selectively located within the case 1.

The socket 5 comprises a counterbore 10 in the wall 3, and an end plate 11 having an opening 12 to receive the end 13 of the rod 7. In one form of the invention and in order to provide a positive interlock which will prevent withdrawal of the end 13 from within the end plate 11, the invention contemplates the provision of a radial pin 14 in the end 13 of the rod 7, and the pro-

2

jecting portion of the pin is adapted to enter the slot 15 at one side of the opening 12.

The socket 6 at the opposite end of the rod 7 comprises counterbore 16 which is slightly deeper than the counterbore 10 to serve a purpose that will more fully appear. This counterbore is closed by means of end plate 17 which, similar to end plate 11, has a circular opening 18 to receive the end 19 of the rod 7.

The end 19 is provided with a compression spring 20 suitably located in the end of the rod as by means of the pin 21 passing transversely through the rod and anchored therein. The outer end of this spring extends beyond the end of the rod 7, and is normally under compression by engagement with the bottom of the socket 16 whereby the rod 7 is urged to the left as viewed in the drawings.

The installation and utilization of the garment hanger rod as above described is believed to be apparent from the description. By way of reiteration and clarification it will be assumed that the rod is in position as shown in Fig. 1, and that removal thereof is desired for such purposes as relocation, refinishing of the rod, or replacement by a new rod. The rod is manually rotated until the pin or projection 14 is in mating relation with the slot 15 in the end plate 5. The rod 7 is then urged to the right whereby the spring 20 is compressed as the end 13 of the rod leaves the opening 12 in the end plate 11. The rod end 13 is then moved sidewardly and the opposite end 19 may be withdrawn from within the socket 6.

Replacement of the rod is the reverse to the operation just described. The end 19 is first inserted in the socket 6, and the end 13 is thereafter permitted to enter the opening 12 under influence of the spring 20 when proper alignment is effected. The rod 7 may then be manually rotated through any suitable angle, and in this manner accidental removal of the end 13 from within the socket 5 is avoided.

It is to be noted that the hanger rod 7 is normally held in the position shown in Fig. 1 of the drawings. When, however, a plurality of garments are hanging upon the rod, and it is desired to slide a group of such garments along the rod as viewed in the drawings, there is a possibility of compressing the spring 20 and thereby accidentally releasing the end 13 of the rod from within the socket 5. For this reason it is desired in most instances to provide an interlocking connection of the end 13 within the socket 5. For this reason suitable means such as the pin and slot connection heretofore described is provided

3

to prevent such accidental withdrawal of the end of the rod from within the socket 5.

Broadly the invention comprehends a garment hanger rod for display cases so constructed and arranged that the sockets therefor provide flush surfaces within the display case, and the rod may be readily removed from such sockets.

What is claimed is:

1. In a removable garment hanger rod for display purposes, a hanger rod, spaced supporting members provided with a pair of opposed sockets, an end plate covering each of said sockets, each of said end plates having an opening to receive one end of the rod, a compression spring mounted in and extending outwardly from one end of said rod adapted to pass through the opening in one of said end plates and enter to the bottom of said socket, said rod being of a length to thereafter enter the other of the sockets and to span the distance between the end plates.

2. In a display case spaced supporting members having opposed paired sockets therein, a hanger rod, a compression spring mounted in and extending from one end of the rod, an end plate covering each of the sockets, each of said end plates having an opening to receive an end of the rod, said rod being of a length to enter to the bottom of one socket under the influence of the spring and to span the distance between the end plates.

3. In a display case spaced supporting members having opposed paired sockets therein, a hanger rod, a radial projection on one end of the

4

rod, a compression spring mounted within and extending outwardly of the other end of the rod, and plates covering said sockets and having openings to receive the ends of the rod, said rod being of a length to span the distance between the said plates, and the opening in one of said plates including a radial slot to receive said projection, whereby said rod may be rotated and retained in the end plates after insertion in the opening therein.

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