SECURITY DEVICE FOR CLOTHES RACKS

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The device includes a bar which is movable along a hanger rail to hold the bar in locked position against clothes hangers which are supported by the rail. A pair of hanger rail clamps permanently attached to the hanger rail provide support for the bar. The clamps are adapted to engage the bars so as to hold the bar in locked position against clothes hangers which are supported by the rail.

1 Claim, 5 Drawing Figures

ABSTRACT
This application for patent discloses a security device for clothes racks commonly employed in retail stores for the display of men's suits and the like arranged on hangers in a show case. The device is composed of three principal parts, a pair of hanger rail clamps permanently attached to the hanger rail, a channel support bar which is pivotally connected to the clamps and a tray member slidably supported on the bar and adapted to engage the clamps so as to hold the bar in locked position against clothes hangers which are supported by the rail.

1 Claim, 5 Drawing Figures
SECURITY DEVICE FOR CLOTHES RACKS

The invention relates to security devices and, in particular, to said devices which are employed to secure clothing on display in show cases commonly utilized in retail outlets.

In general, the security device comprises a pivotal channel bar supported on a hanger rail and engageable with clamps permanently stationed on the rail. The locking means is primarily a slide tray member supported underneath the pivotal channel bar, the member being spring biased into locking engagement. The slide is provided with latching fingers at each end, one of which is carried by a pivotal bar device which is turned by a key and is in pin and slot connection with an extension of the slide whereby turning the device by a key effects translational movement of the slide into unlocked position with respect to the hanger rail clamps. The prior art, U.S. Pat. No. 3,472,385 being illustrative, does not disclose secure bars associated with hanger rails which pivot on an axis parallel with the rail and automatically locked thereto by such pivotal movement.

The details of the invention will hereafter be described being taken in connection with the accompanying drawings, in which:

FIG. 1 is a perspective showing the device in lock position on a hanger rail;

FIG. 2 is a section taken on line 2—2 of FIG. 1, the open position of the channel bar being shown in dot-dash position;

FIG. 3 is a section taken on line 3—3 of FIG. 1;

FIG. 4 is a section taken on line 4—4 of FIG. 2; and

FIG. 5 is a view similar to FIG. 4 but with the channel bar pivoted to its open position, the unlock position of the slide member and key controlled pivotal bar being shown in dot-dash lines.

Referring to FIG. 1, hanger rail 6 is terminally supported by stanchions 8 and 10. Proximate the stanchion 8 and affixed to the rail is clamp 12 and nearly adjacent the stanchion 10 is a similar clamp 14. As best seen in FIG. 4, the clamp 12 consists of an upper U-shaped bar 16 and a lower, inverted U-shaped bar 18 connected together atop and underneath the rail, respectively, by bolts 20. Opposing bottom surfaces of the U-shaped bars 16 and 18 have recesses 22 (FIG. 2) to receive arcuate portions of the hanger rail 6. Similarly, the clamp 14 is composed of upper U-shaped bar 16a and lower inverted U-shaped bar 18a connected by bolts 20a astride the hanger rail 6.

Channel bar 24 is pivotally connected to the upper clamp members 16 and 16a by pins 26 and 28 connecting the clamp 16 and 16a to brackets 30 and 32 respectively on the channel bar 24.

Tray 34 is an inverted U-shaped bar with depending legs to engage the hangers preventing their removal when in locked position and is slidably supported inside the channel bar 24 at one end by shouldered screw 36 through elongated slot 38 in the slide tray 34. At the other end of the slide tray 34 is a second shouldered screw 40 through elongated slot 42 in the slide tray 34 allowing the tray to slide relative to the channel bar 24. Attached to screw 40 is one end of a spring 44. The other end of spring 44 is hooked into a bracket 46 which is fixed to slide tray 34. Thus the slide tray 34 is biased toward the left, as viewed in FIG. 5, in the lock position shown in full lines.

A latching finger 48 is attached to the left end of the slide tray 34 having a camming surface 50 and is adapted to enter hole 52 in upper clamp 16, FIG. 2.

The right end of slide tray 34 is provided with extension member 54. A lock bar 56 on lock 58 is adapted to be rotated by key 60. At one end of lock bar 56 is a pin 62 and engages slot 64 in slide extension 54, FIG. 5. The other end of lock bar 56 has attached thereto a second latching finger 66 having camming surface 68 facing in a direction opposite to that of latching finger 48. The finger 66 is adapted to enter hole 70 in upper clamp 16a, FIG. 3. Thus, when key 60 is turned in a counterclockwise direction rotating lock bar 56, as viewed in FIG. 5, the latching finger 66 is withdrawn from its hole 70 as shown by the dot-dash lines in FIG. 5.

In operation, as viewed in FIG. 4, to open by swinging upwardly channel bar 24 requires turning the key 60 and rotating lock bar 56, as described above, to withdraw the latching finger 66 from hole 70 through its pin 62 in slot 64 which is provided in the extension 54 which causes the slide tray 34 to be pulled to the right against the bias of spring 44 thus withdrawing latching finger 48 from hole 52 and allowing the channel bar 24 to be raised to the open position shown in FIG. 2 by the dot-dash lines so that individual hangers may be removed therefrom. Removal of the key 60 from the lock 58 allows the slide tray 34 to return to the left to the lock position, due to the bias of spring 44. To lock the device the channel bar 24 swings down to be automatically locked to the hanger rail clamps by the camming of latching fingers 48 and 66 over their respective upper clamps 16 and 16a and into the holes 52 and 70 provided therein.

1 claim:

1. A hanger rail security device comprising a hanger rail, a channel bar adapted to pivot on said rail on an axis substantially parallel therewith, locking means supported by the bar for holding the bar in lock position on the rail, said locking means including a slide tray slidably supported on the underside of the bar, clamps on the rail for engagement with said tray, the latter being spring biased into locking engagement with said clamps, the slide being provided with a finger having a cam surface adapted to contact the respective clamps and enter apertures therein for automatic locking on closing the channel bar over said rail, said clamps comprising upper and inverted lower, U-shaped bars bolted together astride the hanger rail.