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A. DREYFUS, JR
CLIP FOR DISPLAY RACK

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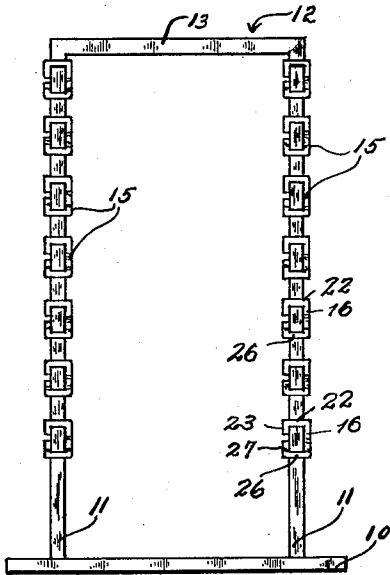


Fig. 1

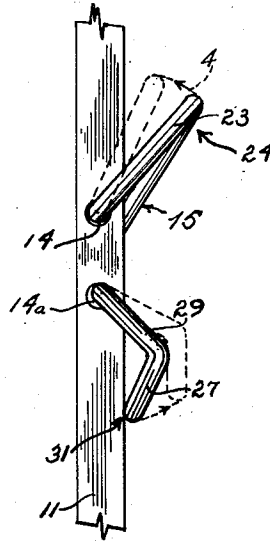


Fig. 2

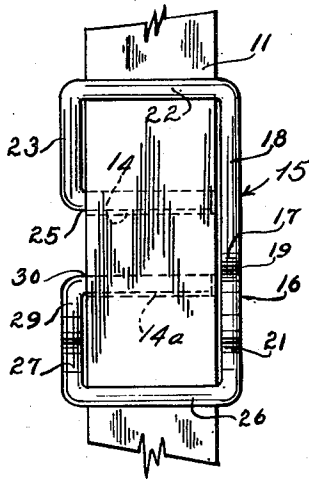


Fig. 3

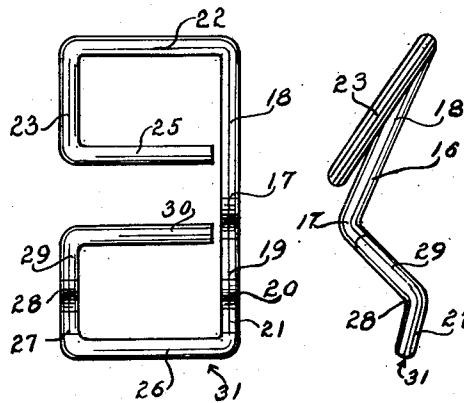


Fig. 4

Fig. 5

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CLIP FOR DISPLAY RACKS

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2 Claims. (Cl. 211—89)

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This invention relates to improvements in clips which are particularly useful on display stands or racks.

An object of the invention is the provision of a clip formed from a single strip of resilient wire in which a main supporting arm is bent intermediate the ends thereof to form an upper and lower section so that the bent portion will engage one side of the leg or post of a display stand or rack with spaced pintles carried by short arms intumed from cross bars projecting laterally from the ends of the supporting arm, said pintles being received under tension by spaced passages in the leg or post, the intumed arm at the section of the supporting arm being offset from the plane of said upper section of the supporting arm for maintaining the pintles under tension, the upper section forming a finger piece for rocking the clip on the pintles, the lower section of the supporting arm including the associated cross bar forming a means for clamping articles onto the post or leg, the intumed arms engaging the opposite side of the leg.

A further object of the invention is the provision of a clip for use on posts of a display rack and manufactured from a strip of resilient wire in which the wire is bent to form a main supporting arm intermediate the ends of the wire with right angular cross bars projecting laterally from the opposite ends of the supporting arm and intumed arms extending from the ends of the cross bars, each intumed arm terminating in a right angularly disposed pintle with the free ends of the pintles spaced from the supporting arms and received by spaced passages in the post, the supporting arms having a bend intermediate the ends thereof with the bend engaging one side of the post while the intumed arms engaging the opposite side of said post, one of the intumed arms being disposed at an acute angle to the adjacent portion of the supporting arm to maintain tension on the pintles so that one of the cross bars will clamp an article onto the post while the other cross bar will be spaced from the post and act as a finger piece for rocking the clip on the pintles to release the article.

This invention is best understood from a consideration of the following detailed description in connection with the accompanying drawing, forming part of the specification, nevertheless, it must be understood that the invention is not confined to the disclosure, but is susceptible of such changes and modifications as shall define no material departure from the salient features of the invention as expressed in the appended claims.

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In the drawings:

Figure 1 is a front view in elevation of a rack or display stand showing my improved clips attached thereto.

Figure 2 is an enlarged fragmentary side view of a clip shown applied to openings in a vertical leg of the display stand.

Figure 3 is an enlarged front view of a clip attached to the display stand.

Figure 4 is an enlarged front view of the clip detached from the stand, and

Figure 5 is an enlarged side view of the detached clip shown in Figure 4.

Referring more particularly to the drawing, 10 designates a base member from which rise legs 11 of a U-shaped display rack 12. A bight portion 13 forms a connecting bar for the upper ends of the legs. The legs are substantially rectangular in cross section and are provided with spaced pairs of transverse openings 14 and 14a forming bearings for a purpose which will be described presently.

A plurality of clips 15 formed of spring material are adapted to be supported in spaced relation along the vertical lengths of the legs 11. Each clip has a portion for retaining articles on the legs for display purposes, with the articles being equally spaced from each other.

The clips are formed from spring wire and include a main supporting arm 16 which is bent at 17 to provide a pair of sections 18 and 19 which are inclined towards each other at an obtuse angle. These sections are substantially of the same length. It will be noted from Figure 5, that the section 19 is bent as shown at 20 in the opposite direction from the bend at 17 in order to position properly a package or article-retaining member to be described presently. The bent portion 21 is inclined towards the section 19 at an obtuse angle.

A cross bar 22 extends laterally from the upper end of the section 18 and at right angles thereto. An arm 23 projects downwardly at right angles from the free end of the cross bar adjacent the inner face of the leg 11 of the display rack. It will be noted that the cross bar 22 is sufficiently long to place the section 18 and the depending arm 23 at opposite sides of each leg 11 with a clearance between the sides of the leg and the members 18 and 23 so that the upper end finger piece 24 of the clip may be rocked towards the front face of a supporting leg 11. A pintle 25 intumed at right angles from the lower end of the arm 23 is received in the upper transverse passage 14 in a leg of the display rack.

A second cross bar 26 extends laterally at right

angles from the lower end of the bent portion 21 of the lower section 19 of the main supporting arm 16 of the clip. An arm 27 extends upwardly at right angles from the free end of the cross bar 26. This arm is bent at 28 at the same angle as the section 19 so that a plane passing through the longitudinal axis of the section 19 will intercept the longitudinal axis of the bent portion 29 of the arm 27. Likewise, a vertical plane will pass through the longitudinal axis of the members 21 and 27. A pintle 30 extends from the upper free end of the member 29 and is received by the lower passage 14a of the pair of passages in a leg 11 of the display rack 12.

It will be noted from Figures 2 and 5, that the arm 23 is given a slight twist relative to the cross bar 22. Thus a plane passing through the longitudinal axis of the cross bar 22, the depending arm 23 and the pintle will be disposed at an acute angle to a plane passing through the longitudinal axis of the upper section 18 of the main supporting arm 16 of the clip 15 and cutting the first-mentioned plane through the longitudinal axis of the cross bar 22. The bend 17 in the arm 16 together with the slight twist of the arm 23 offsets the upper end or finger piece 24 from the side edge of a leg 11 of the display rack. The inbent lower end or clamping portion 31 of the clip presses against the side edge of said leg.

When the clips are applied to the legs 11 of the display rack, the pintles 25 and 30 are forced into the respective openings 14 and 14a under tension. The members 23 and 27 together with the supporting arm 16 will be likewise under tension. Thus when the clamping means 31 is against a leg or post 11 of the stand, said means will be positioned firmly as will be the finger piece 24 by the spring tension on the various parts.

Pressure on the finger piece 24 in the direction indicated by the arrow in Figure 2, will cause the finger piece, indicated in full lines to snap to the dotted line position, while the clamping means will move to the dotted line or open position to release or receive an article or package. The finger piece is then allowed to move to the full line position so that the means 31 will clamp the article against the front face of the leg 11. The clips will rock on the pivots 25 and 30 when the clips are moved from the open position to the closed position and vice versa. During such movements, the bend 17 in the supporting arm 16 rides against one side of the leg 11 and cooperates with the pintles for retaining the clips on the legs.

It will be noted from the above that the clip in its simplest form includes a supporting arm 16, a U-shaped member extending laterally from each end of the supporting arm with the inner legs 25 and 30 forming pintles. The legs 22 and 26 provide respectively a finger piece and a clamping bar.

What I claim:

1. A clip for use on a display rack having at least one vertical post provided with pairs of spaced transverse passages, said clip being manufactured from a single strip of resilient wire, the wire being bent intermediate the ends thereof to provide a supporting arm with a cross bar projecting laterally at right angles from each end of the supporting arm, an inturned arm at the free end of each cross bar, the inturned arms pointing towards each other, and a pintle extending from the inner free end of each inturned arm towards the supporting arm and received by a transverse passage in the post, the supporting arm having a bend intermediate the ends thereof and adapted to engage one side of the post, the inturned arms being in engagement with the opposite side of said post, one of the inturned arms being bent at an acute angle to a plane passing through the adjacent portion of supporting arm for maintaining the pintles under tension in the transverse passages, one of the cross bars acting as a finger piece for rocking the clip, the other cross bar acting as a clamp for articles.

2. A clip for use on a display rack having at least one vertical post provided with a plurality of spaced pairs of transverse passages, each clip being manufactured from a single strand of resilient wire and comprising a substantially vertical supporting arm having an intermediate bend engaging one side face of the post between the transverse passages, a U-shaped member extending laterally from the upper end of the supporting arm and forming a finger piece, a U-shaped member extending laterally from the lower end of the supporting arm and forming a clamping means for articles, one leg of the upper U-shaped member providing a pintle received by a transverse passage of a pair of passages, a leg of the lower U-shaped member providing a pintle received by the other passage of the pair, said pintles being in different vertical planes for creating a tension on the pintles so that the other leg of the lower U-shaped member will clamp an article onto the leg of the post, the other leg of the upper U-shaped member providing a finger piece for rocking the clip on the post.

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