Sept. 15, 1931. R. J. RE NOIS 1,822,905

DISPLAY BRACKET

Filed April 13, 1931

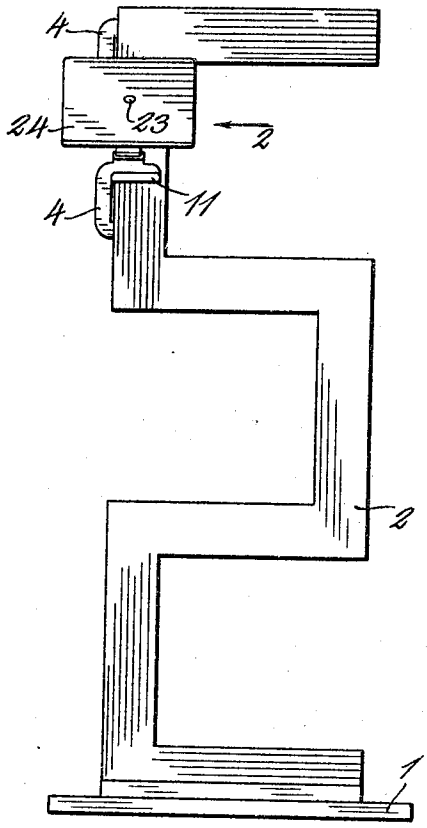


Fig. 1.

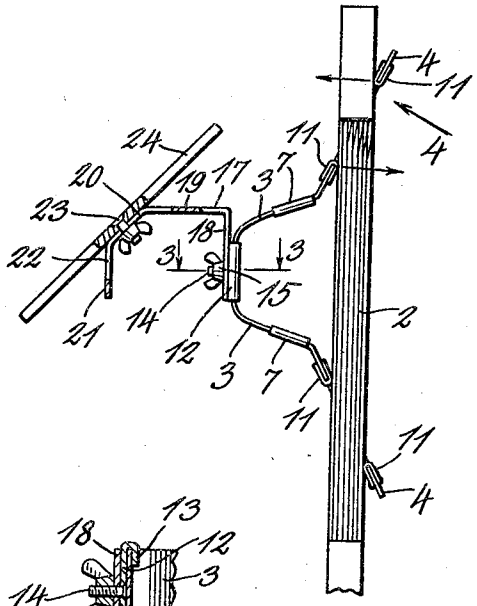


Fig. 2.

Fig. 3.

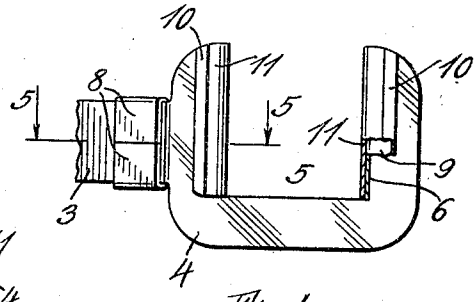


Fig. 4.

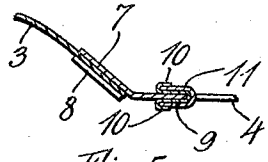


Fig. 5.

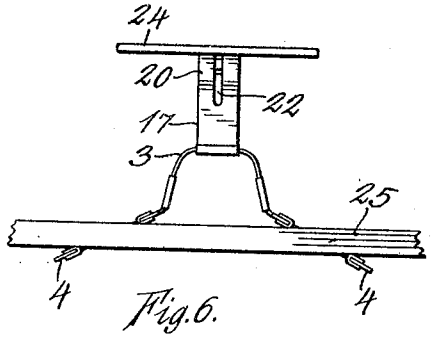


Fig. 6.

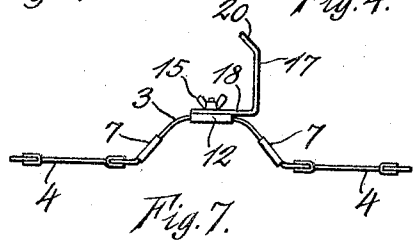


Fig. 7.

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UNITED STATES PATENT OFFICE

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DISPLAY BRACKET

Application filed April 13, 1931. Serial No. 529,779.

This invention relates to improvements in detachable display brackets of the type employed for supporting articles for display in show windows and on store counters.

It is the object of this invention to produce a simple and practical display bracket that can readily be attached to any support whether the same be vertical or horizontal and regardless of the size and shape of the support.

This invention is an improvement over the one shown and described in my copending application Serial No. 517696, filed February 24, 1931.

The invention that forms the subject of this application briefly described, consists of a central curved member of resilient material to the ends of which clamping jaws are attached. The jaws are made of comparatively rigid sheet metal and are provided with notches extending inwardly from one side. The jaws are so related to the central member that when the parts are in normal position the two jaws lie substantially in the same plane. By bending the central member the jaws can be inclined with respect to each other so that they may be attached to a support. A bracket is secured to the central member and projects outwardly from the convex side thereof. This bracket has three angularly inclined sides and a slot that extends through all of the sides and which is adapted to receive a clamping bolt for holding a supporting shelf.

Having thus briefly described the invention, the same will now be described in detail, and for this purpose reference will be had to the accompanying drawings in which the preferred embodiment thereof has been illustrated, and in which:

Fig. 1 is a front view of a support showing the improved supporting bracket in place thereon;

Fig. 2 is a side view looking in the direction of arrow 2 in Fig. 1;

Fig. 3 is a section taken on line 3—3, Fig. 2;

Fig. 4 is a view of one of the clamping jaws, looking in the direction of arrow 4, Fig. 2, parts being broken away to better disclose the construction;

Fig. 5 is a section taken on line 5—5, Fig. 4;

Fig. 6 is a view showing the bracket secured to a horizontal support; and

Fig. 7 is a view showing the bracket in normal position.

In the drawings reference numeral 1 designates the base to which a vertical support 2 is secured. This support has been shown as consisting of several sections extending alternately in a horizontal and vertical direction but may be of any other shape, and is merely intended to represent a support of any suitable size and construction.

The detachable bracket consists of a central part 3 which is preferably made from spring steel and is normally curved in the manner shown in Fig. 7. Secured to the ends of the central resilient member are clamping jaws 4. These jaws are made from sheet metal of considerable strength and rigidity and are each provided with a notch 5 extending inwardly from one side thereof. The walls 6 of the notches are substantially parallel and extend at right angles to the longitudinal axis of member 3. For the purpose of securing the jaws to the central resilient member they have been provided at one end with an extension 7 having laterally projecting portions 8 that can be folded about the ends of member 3 and clamped to the latter by means of a press so as to hold the jaws securely attached to the resilient central member. For the purpose of affording projection against the sharp edges of walls 6, the latter have been provided with a detachable resilient covering which consists of a sheet metal member 9 bent into U-shape and which has outwardly and rearwardly projecting flanges 10. These flanges serve to engage the

edges of a rubber strip 11 in the manner shown in Fig. 5. When these protectors are in place, the rubber strip is so positioned that it will engage the sides of the support and will therefore prevent the latter from becoming scratched or marred during the application and removal of the bracket.

Attached to the center of the resilient member is a metal clip 12. This clip has end portions 13 that are bent inwardly and are pressed against the inside of member 3 in the manner shown in Fig. 3. A bolt 14 extends through an opening in clip 12 and projects outwardly therefrom. This bolt is provided with a wing nut 15 and serves to hold the bracket 17 in place. Bracket 17 has a straight portion 18 that is provided with an opening for the reception of the bolt 14. Extending outwardly from one end of part 18 is a side 19 which lies substantially at right angles to the part 18. Side 19 terminates in a short side 20 that extends at an angle of forty-five degrees with it, and this in turn terminates in a portion 21 that is parallel to the side 18. A slot 22 extends through the sides 19, 20 and 21 and this slot is adapted to receive the clamping bolt 23 that projects from the supporting table or shelf 24. The shelf can be attached to the bracket so as to be parallel to either of the three sides 19, 20 and 21 which gives it three positions. When the shelf is to be held in an inclined position, it is secured to bracket 17 in the manner shown in Figs. 1 and 2, but if the detachable bracket is fastened to a horizontal shelf or other horizontal support like that indicated by reference numeral 25 in Fig. 6, shelf 24 can be clamped against sides 21 and will therefore be parallel with the support. Since bracket 17 is rotatable about the clamping bolt 14, this affords another adjustment that makes it possible to bring the supporting shelf 24 into any desired position regardless of the inclination of the support 2.

When the detachable bracket is to be used, the center part 3 is bent so as to increase its curvature and in this way the jaws 4 are brought into an angularly related position whereupon the openings 5 will be so related to one another that the support can be inserted in these openings as clearly shown in Figs. 2 and 6. When the bracket is in place, the edges of the jaws exert pressure on the support in the manner indicated by arrows 27 and 28 in Fig. 2. The thickness of the support can vary from that of a very thin piece to a thickness equal to the distance between the sides of the rubber strips 11 and therefore the bracket is suited for use with a large number of supports which can either have flat sides as shown in the drawings, or they may be square, hexagonal or round, as may be found to be most desirable.

Attention is called to the fact that the center part 3 is resilient and flexible, while the jaws are made of comparatively rigid material, as this permits adjustments to be readily made and results in a device that clamps securely to a support and which can be quickly attached and removed. Owing to the rotatable connection of bracket 17, it is possible to adjust the supporting shelf 24 to any desired position, regardless of the inclination of the support as can be readily seen if the drawings forming part of this application are turned so as to bring the support 2 in Fig. 2 into horizontal or any intermediate position.

In the embodiment illustrated and described the resilient member 3 and the jaws 4 have been shown as made from flat material but it is to be understood that any suitable shape, such, for example as round wire, can be substituted, if desired. The jaw members 4 can be formed from round material bent into U-shape and attached to the ends of the spring 3 which can be made of flat material as shown, or of round stock.

Having described the invention what is claimed as new is:

1. A display bracket comprising, in combination, a flexible resilient member, a clamping jaw secured to each end thereof, each jaw having a notch extending inwardly from one side, the opposing sides of the notches having a protective covering and a shelf supporting bracket secured to the flexible resilient member substantially at its center point.

2. A display bracket comprising, a curved resilient central portion, clamping jaws secured to the ends thereof, the clamping jaws comprising flat metal plates of greater rigidity than the central portion and provided with notches extending inwardly from one side, the sides of the notches being substantially parallel and perpendicular to the longitudinal axis of the resilient center member, a removable protective covering for the opposing edges of the notches, and a shelf supporting bracket connected with the resilient central portion.

3. A display bracket comprising, a curved resilient central portion, clamping jaws secured to the ends thereof, the clamping jaws comprising flat metal plates of greater rigidity than the central portion and provided with notches extending inwardly from one side, the sides of the notches being substantially parallel and perpendicular to the longitudinal axis of the resilient center member, a removable protective covering for the opposing edges of the notches, and a shelf supporting bracket rotatably connected with the central part of the resilient central portion and extending outwardly from the convex side thereof.

4. A display bracket comprising a curved central portion of spring metal, a clamping

jaw secured to each end thereof, the clamping jaws being formed from sheet metal of greater rigidity than the central portion and normally extending in opposite direction, each jaw member having a notch extending inwardly from one side, the opposing edges of the notches being substantially parallel and perpendicular to the longitudinal axis of the curved central portion, removable protective pads enclosing the edges, and a curved bracket rotatably connected to the convex side of the center portion, the free end of the bracket having an elongated slot.

In testimony whereof I affix my signature.

ROY J. RE NOIS.