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POSTER-DISPLAY DEVICE.

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Our invention relates to improvements in display devices and has special reference to a device for holding a poster in flat extended upright condition for display.

The object of our invention is to provide a very simple inexpensive device for holding posters in extended condition; which can be packed with the poster for shipping through the mail; which, when packed with a poster for shipment, will help to protect the poster; which can be readily arranged and applied to the poster; and which will serve in the manner of an easel to support the poster in flat extended condition and in substantially vertical position for display.

Our device is particularly adapted for use with a printed poster having strips at its upper and lower ends and which can be rolled up longitudinally for packing. Usually the poster is higher than it is wide and the device is adapted to be arranged of a length slightly longer than the width of the poster, so that when packed with same the device will assist in protecting the poster. The device is also arranged to be readily extended to a suitable length to engage the strips at the ends of the poster and to exert a sufficient tension on the poster to hold it flat. Means are provided for automatically throwing out a part of the device to serve as a brace to maintain the device and poster in substantially upright or vertical position.

Many other advantageous features of construction and operation will become apparent from the following description taken in conjunction with the accompanying drawings, forming part of this specification and in which:

Fig. 1, is a rear perspective view showing a poster supported by the device;

Fig. 2, is a fragmentary, rear, plan view of the device in folded condition, with the poster indicated in dotted lines as wound around the device preparatory to packing for shipping;

Fig. 3, is a fragmentary, plan view as seen from the opposite side to that shown in Fig. 2;

Fig. 4, is a fragmentary, rear, plan view, similar to Fig. 3 with parts broken away to best illustrate the structure;

Fig. 5, is a view similar to Fig. 3, but showing the parts in extended relation;

Figs. 6 and 7, are longitudinal sections on the lines 6—6 and 7—7, respectively, of Fig. 5;

Figs. 8 and 9, are transverse sections on the lines 8—8 and 9—9, respectively, of Fig. 5; and

Fig. 10, is a fragmentary, perspective view, particularly showing the end strip for the poster.

In said drawings 1, represents a poster printed on a paper sheet, and designed to be exhibited in substantially vertical position, as shown in Fig. 1. For holding the poster in such exhibit position 1 provide a support 2, preferably made principally of wire and adapted to engage strips 3 secured to the top and bottom edges of the poster. These strips, as best shown in Fig. 10, are made of light sheet metal and are bent or formed to provide a part 4 which engages over and is clamped tightly upon the end of the poster. Preferably the end strip is formed up to provide a guard part 5 at the back of the poster and to form a somewhat V-shaped part 6 presenting a substantially horizontal wall 7 at the mouth of the V. The horizontal part 7 is provided with holes 8 for receiving the ends of the support 2.

The support 2 is so constructed that it is normally longer than the poster so that it has to be flexed or curved, as shown in Fig. 1, to place it in poster supporting position and the resiliency of the support is such that it tends to stretch or tension the poster, and consequently retains the poster in flat condition. The support 2 consists of three U-shape wire members 9, 10 and 11 joined together by a sheet metal connecting member 12.

The top or upper member 9 of the support is mounted at its closed end upon the connecting member 12 in such a manner that it can be withdrawn from its extended position to shorten the device for shipping purposes. The side arms 13 of the member 9 are slidingly engaged by formed over edges 100.
14 of the member 12, as shown in Figs. 3, 7 and 8, and the member 9 can be moved back and forth longitudinally to shorten and lengthen the device.

As shown in Fig. 1, the poster is generally longer than it is wide, and as it has the rigid end strips 3, it is packed for shipment by rolling it up on one of the end strips. The poster as thus rolled up ready for shipping makes a package which is shorter than the support 2 when extended and in order to cause the support 2 to be slightly longer than the length of the package, or, in other words, than the width of the poster. The sides 13 of the part 9 are provided with stop shoulders 15 adapted to engage the end of the connecting member 12 to limit the withdrawal of the member 9 and cause the support when thus shortened to be longer than the width of the poster, as shown in Fig. 2. The poster is, as indicated in dotted lines in Fig. 2, wrapped around the shortened support for shipment and as the support is relatively rigid it protects the paper poster against damage, especially when, as is usual, each poster with its support is shipped in a long envelop.

The lower U-shaped member 10 of the support 2 is rigidly mounted at its closed end upon the connecting member or plate 12, the side leg parts 16 extending in the plane of the connecting member. The member 10 is secured to the connecting member 12 by turned over side flanges 17 on the lower end portion of the connecting member 12. The inner ends 18 of these flanges 17, as best shown in Fig. 6, are bent down or inwardly toward the body of the connecting plate member 12 to hold the member 10 against movement relatively to the member 12.

The brace member 11 is pivotally mounted at one end on the connecting member 12 so that it can swing out at an angle to the plane of the connecting member, as shown in Figs. 1 and 7, for supporting the poster, and back substantially into the plane of the connecting member when the device is collapsed. For purposes of rigidity the closed end 19 of the brace member 10 is preferably the free end and at the opposite end the extremities 20 of the side leg parts 21 are bent in toward each other, as best shown in Fig. 5. The member 11 is pivotally mounted at its inner end on the connecting member 12 by means of a tubular like sheet metal link 22 which is formed to receive the inner cross bar end 24 of the upper U-shaped member 9 and the two bent in ends of the member 11. The side legs 21 of the member 11 are bent off rearwardly at an angle to the plane of the connecting member 12, as best shown in Fig. 7, so that when the device is extended the member 11 will extend rearwardly to form a brace to hold the poster from falling over backwards. From Fig. 7 it will be seen that the inner end portion of the member 11 lies between the inner end of the upper member 9 and the connecting plate, and, furthermore, it will be seen from Fig. 3 that the member 11 is narrower than the members 9 and 10, and consequently when the member 9 is slid inwardly the member 11 can swing forwardly between the legs 13 of the member 9 and the legs 16 of the member 10 to bring the member 11 substantially into the plane of the connecting member 12 for shipping purposes.

The brace member 11 is forced to swing back to bracing position when the upper member 9 is drawn out by reason of the cross bar 24 of the member 9 contacting with the legs 21 of the brace member and the brace is locked in its supporting position by this cross bar which holds the upper ends of the legs 21 close against the body of the connecting member 12, as best shown in Fig. 7.

For the purpose of locking the upper member 9 in extended position a hook 23 is provided. This hook is formed in connection with the tubular connecting member 22, the plate of which the member 22 is formed is extended downwardly and its free lower end is formed into the hook 23.

The hook 23 is adapted to receive the cross bar 24 at the lower end of the member 9. To enter the cross bar 24 in the hook 23 the member 9 is pulled up far enough from its collapsed position to lift the cross bar 24 above the hook 23, the relative yielding of the parts allowing this movement, and then the member 9 is forced down to enter the bar 24 into the hook. The hook 23 thus holds the member 9 in its extended position against the tension of the poster.

The length of the device as extended is more than the height of the poster by sufficient to make it necessary to bow the device, as best shown in Fig. 1, when it is engaged with the poster. The resilience of the device holds the poster stretched under considerable tension. In mounting the poster on the device the upper member 9 is first pulled out and engaged at the inner end with the hook 23. Then the free ends of the legs of the member 9 are inserted into the openings 8 in the strip 3 on the upper end of the poster. Then the device is flexed or bowed sufficient to allow the free ends of the legs of the lower member to be entered into the holes 8 in the strip at the lower end of the poster.

The pulling up and fastening of the upper member 9 acts to swing the brace member to its inclined operative position so that as soon as the four ends of the members 9 125 and 10 are inserted through the several openings 3 the device is ready to be set up. The free ends of the legs of the members 9
and 10 are bent at a slight angle to the legs, as shown at 25, so that when entered through the holes 8 in the strips 3 they will not tend to deflect the ends of the poster, but will tend to retain the poster flat from the top to the bottom.

It is to be noted that the inwardly formed guard flanges 5 on the strips 3 form guides in entering the ends 25 into the holes 8 and prevent the inadvertent puncturing or destruction of the poster with these ends in this operation.

A valuable feature of our invention resides in the fact that the device 2 is separate from the poster that is not permanently attached thereto, and consequently the device can be used with different posters. This is of value for the reason that a series of posters can be exhibited in succession and only one supporting device will be necessary for the several posters.

As many modifications of our invention will readily suggest themselves to one skilled in the art, we do not limit or confine our invention to the specific details of construction herein shown and described.

We claim:
1. The improvements herein described, comprising a support for posters having edge strips attached at opposite ends thereof, and consisting of two thrust members slidable in relation to each other from a combined minimum length to a suitable maximum working length, stops for limiting the relative movement in each direction, the free ends of the two members adapted to be engaged with the strips of a poster and to tension the poster, a leg member mounted at one end of one of said relatively movable members to swing out and in, and bent off at an angle near its pivoted end adapted to be engaged by the other of said relatively movable members to swing the pivoted end into the plane of the two sliding members and its free end outwardly.

2. The combination with a poster, having strips at its ends, of a poster support normally slightly longer than the poster is wide for protecting the poster during shipment, the support comprising two parts slidable upon each other from a normal minimum length to a maximum working length, the free ends of the two adapted to engage the strips and tension the poster, a leg member pivotally mounted on one of said slidable members to swing out and having its pivoted end bent off at an angle adapted to be engaged by the other of said members to force the inner end of the leg member into the plane of the two support members and swing the free end of the leg member out to operative position as the members are extended and means for retaining the slidable members extended.

3. The combination with a poster of strips for the ends thereof, the strips formed of sheet metal and adapted to be clamped upon the ends of the poster, and having opposed walls provided with openings to receive the ends of a tensioning support, and stop walls beyond the opposed walls for engagement with the ends of the support.

4. The combination with a poster of strips for the ends thereof, the strips formed of sheet metal and adapted to be clamped upon the ends of the poster, and having opposed walls provided with openings to receive the ends of a tensioning support, and stop walls beyond the opposed walls for engagement with the ends of the support, and a support comprising two relatively slidable members, and a leg member, the slidable members being relatively movable from a minimum to a maximum length, and having ends adapted to enter said holes in the end strips and engage said walls, means for retaining said slidable members at maximum length, the leg member mounted on one of the slidable members to swing out and in, and adapted to be engaged by the other of said slidable members as it reaches its operative position and to be held thereby in its swung out position.

5. The combination with a support adapted to be engaged with strips at the ends of a poster, strips on the poster having opposed perforated walls for receiving the ends of the support, and said strip formed to provide inwardly extending walls to guard the poster against destruction as the ends of the support are entered into the perforations in said opposed walls.

6. A poster support made principally of resilient wire formed into three U-shaped members, a sheet metal connecting member formed around the closed end of one of said U-shaped members and formed at its edges to surround the leg portions of another of said U-shaped members for slidingly mounting one U-shaped member upon the other, the third U-shaped member pivotally mounted at its open end upon said sheet metal connecting member to serve as a brace member.

7. A sheet metal strip for the end of a poster, one longitudinal edge of the strip bent to form a slot to receive an end of a poster and to be clamped upon same, the opposite edge folded back upon itself to form a guard wall, then bent outwardly to form a wall extending out substantially at a right angle to the plane of the strip to form a shoulder, then bent inwardly again to engage the outer edge of the strip to brace said projecting wall, the projecting wall perforated to receive a poster support, as and for the purpose described.

8. In a device of the kind described, a telescopically extensible tensioning member, a brace member pivotally mounted on the
tensioning member and adapted and arranged to swing into compact relation with the tensioning member when the latter is not extended and to swing out to bracing relation when the tensioning member is extended, and cooperating means on the tensioning member and brace member for causing the brace member to swing out to bracing relation as the tensioning member is being extended.

In testimony whereof, we have hereunto set our hands this 2nd day of April, 1927.

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