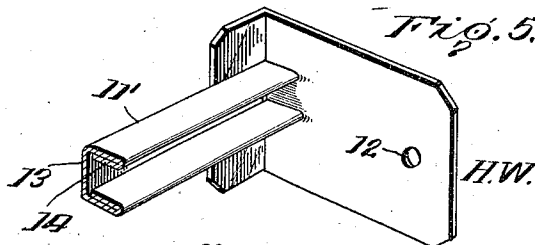
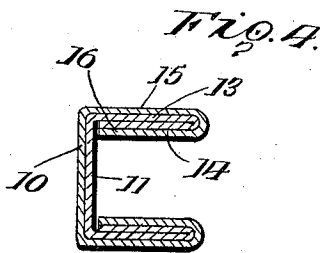
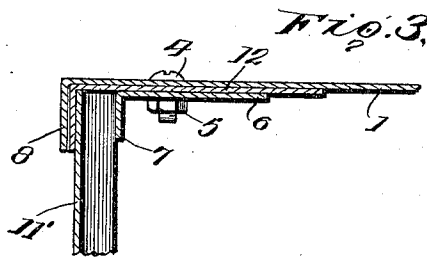
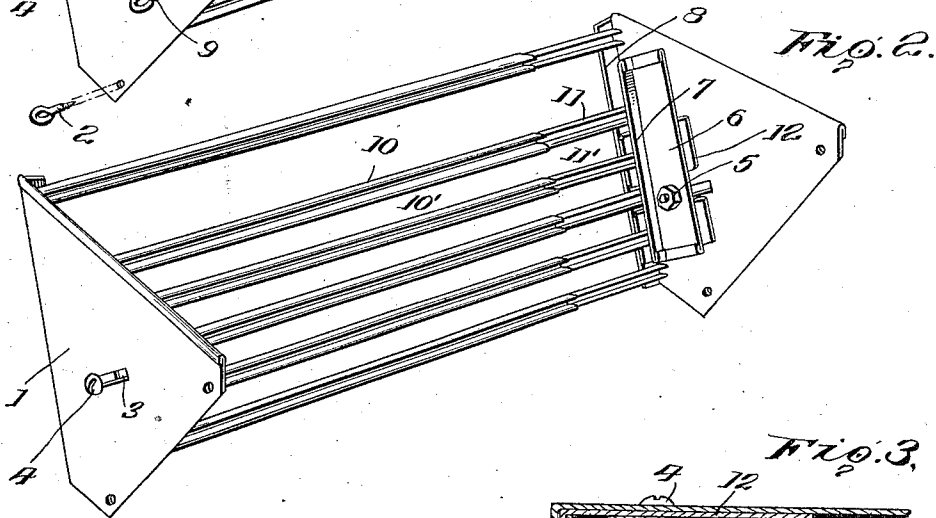
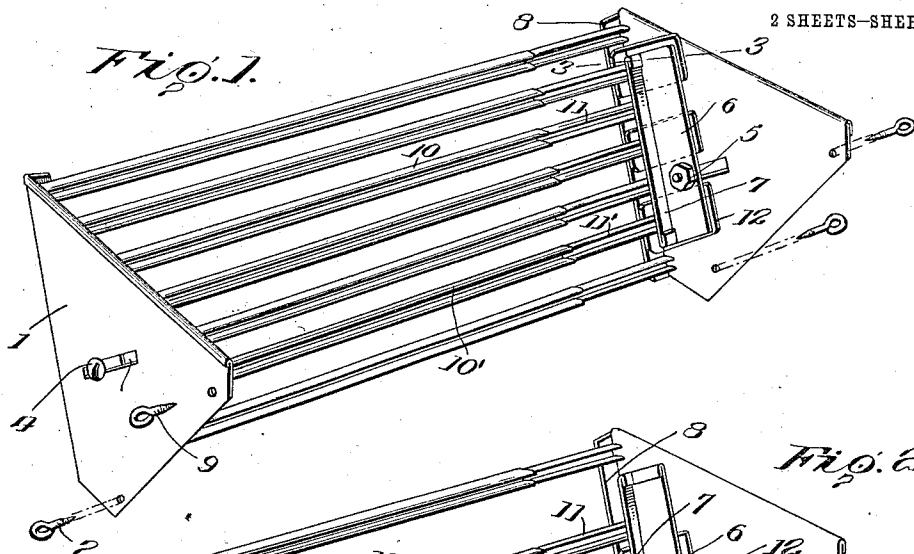


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 DISPLAY ATTACHMENT FOR BOXES.
 APPLICATION FILED FEB. 17, 1912.

1,044,839.

Patented Nov. 19, 1912.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 6.

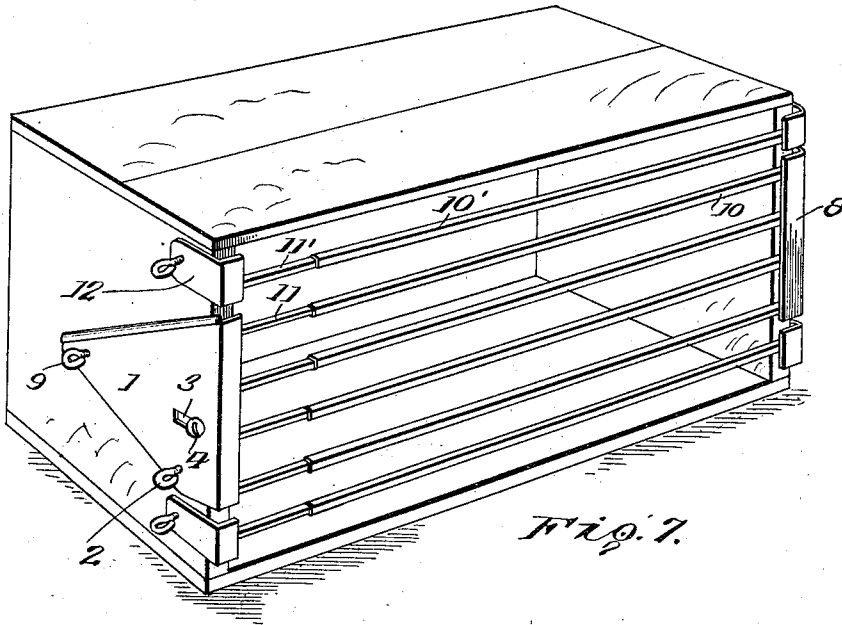
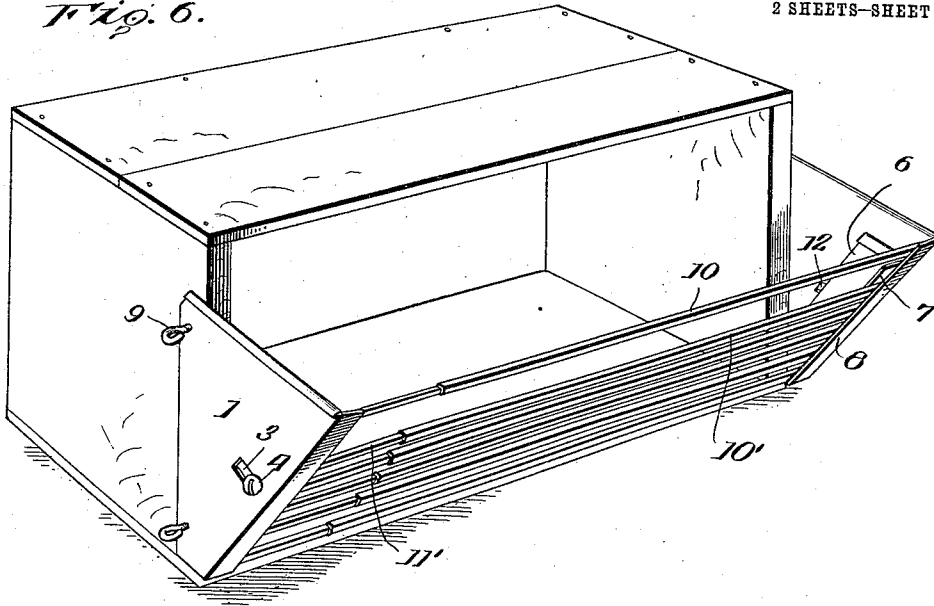


Fig. 7.

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UNITED STATES PATENT OFFICE.

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DISPLAY ATTACHMENT FOR BOXES.

1,044,839.

Specification of Letters Patent.

Patented Nov. 19, 1912.

Application filed February 17, 1912. Serial No. 678,240.

To all whom it may concern:

Be it known that I, HARRY W. WILLIAMS, citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Display Attachments for Boxes, of which the following is a specification.

This invention has relation to display attachments for boxes, crates and the like, and has for its object to provide an attachment of simple structural arrangement which may be easily and quickly applied to a box or crate, and when in position upon the box and the box is resting upon its side, is adapted to retain the goods and at the same time permit the goods to be viewed and inspected and removed from the box.

The attachment is so constructed that it may be applied to boxes of different lengths or breadths and these boxes may be piled in tiers so that the goods in any particular box may be observed and the attachment of any of the under boxes may be opened without disturbing the boxes above, so that the goods from any particular box may be removed. By this arrangement the boxes may be piled in a stack on a store floor and the goods may be readily removed; also the boxes may be piled in stacks upon the body of a wagon such as is used by hucksters, and when so positioned the goods may be readily reached and removed and inspected, with which object in view the attachment includes end plates to each of which are permanently secured a suitable number of bar sections. The bar sections upon one plate are telescopically received within or engaged by the bar sections upon the other plate, so that the plates may be spaced at a desired distance from each other to accommodate the length or breadth of the box or crate to which the attachment is applied. The attachment is also provided with bars made up of sections that engage each other in a manner similar to that described in connection with the bars that are fixed to the plates, and these bar sections are detachably connected with the plates so that they may be removed from the plates and attached directly to the ends of the box or crate to bridge the open side thereof in case the box or crate is relatively broad.

This attachment is especially adapted to be used upon boxes and crates which con-

tain fruit and vegetables and the like, and the detachable bars may be permitted to remain upon the plates or may be removed therefrom and applied to the box or crate as indicated as occasion or convenience may require. When, however, smaller vegetables or fruits, as for instance, cherries, cranberries, beans or the like, are contained in the box or crate, a strip of paper may be applied to the bars to prevent the said goods from falling through the spaces between the bars.

With these and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of the attachment illustrating one arrangement of the detachable bars thereof; Fig. 2 is a similar view illustrating another arrangement of the detachable bars; Fig. 3 is a sectional view of the attachment cut on the line 3—3 of Fig. 1; Fig. 4 is a transverse sectional view of one of the bars of the attachment; Fig. 5 is a detail perspective view of an end portion of one of the detachable bars of the attachment; Fig. 6 is a perspective view showing the attachment applied to a crate and in open position; Fig. 7 is a similar view showing a different arrangement of the bars of the attachment.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

As illustrated in the drawing, the attachment consists of plates 1 which are adapted to be secured by screws or other securing devices, indicated at 2, to the ends of a box or crate. These plates 1 are adapted to be swung upon the screws or securing devices 2 so that the bars (hereinafter to be described) carried by the plates may be positioned against the top opening of the box or crate or may be disposed at an inclination to the top edges of the sides and ends of the box or crate so that the goods may be removed from the box or crate. Each plate 1 is provided with a slot 3 through which bolts 4 pass. The inner ends of the bolts 4

are screw threaded into taps 5 which are soldered or otherwise secured upon the metallic strips 6. These strips 6 have at their edges adjacent the edges of the plates 1
 5 intumed flanges 7. The plates 1 are provided at their outer edge portions with intumed flanges 8. Screws 9 pass through the upper rear portions of the plates 1 and are adapted to be driven or forced into the material of which the box or crate is composed,
 10 and thus the plates may be held at desired adjusted positions upon the box or crate.

Bar sections 10 are fixed to one of the plates 1 and bar sections 11 are fixed to the
 15 other plate 1. The bar sections 11 are telescopically received in the end portions of the bar sections 10. These bar sections are soldered or otherwise secured upon the flanges 8 of the plates supporting the
 20 same. These bar sections may be located at any desired distance from each other so that there is ample space between the bars to view and inspect the goods contained within the box or crate. If the box or crate is
 25 designed to contain goods of comparatively small diameter, as, for instance, berries, beans, etc., a strip of paper (not shown) may be applied to the bars in any suitable manner to prevent the said goods from fall-
 30 ing through the spaces between the bars.

Detachable bars are provided for the attachment, and these bars consist of sections 10' and 11', the sections 10' telescopically receiving the sections 11'. The bar sections
 35 10' and 11' are provided at their ends with flanges 12 which normally fit between the inner faces of the plates 1 and the adjacent faces of the strips 6 and when properly positioned therebetween the bolts 4 are tight-
 40 ened so that the flanges 12 are clamped in position between the adjacent parts. Inasmuch as all of the bars composed of the sections as described may be elongated or contracted the plates 1 may be moved toward or
 45 away from each other in order that the bars may be of sufficient length to extend the length of the box or crate.

It is to be understood that the bars composed of the sections 10, 10', 11 and 11' may
 50 be of any desired configuration in transverse section. For instance, the said sections may be cylindrical or circular in transverse section, but in the preferred form these sections are of angular transverse configuration.
 55 That is to say, the inner sections 11 and 11' are formed of strips of metal with side portions 13 approximately at right angles to the intermediate portions thereof and with intumed flanges 14 approximately parallel
 60 with the side portions 13 and folded close against the inner sides thereof. The outermost bar sections 10 and 10' are provided with side portions 15 which are approximately at right angles to the intermediate portions thereof and the said portions 15 are con-

tinued into intumed flanges 16 which are spaced from the portions 15. The side portions 13 together with the flanges 14 of the innermost bars are received between the side portions 15 and the intumed flanges 16 of the bar sections 10 and 10'. By so constructing the bars and bar sections they are extremely rigid and the parts are so disposed that they will effectually withstand the weight or strains to which they are subjected when the box or crate is in position upon its side.

Fig. 3 of the drawing shows the manner in which the detachable bars are held in position upon the plates, and Fig. 7 shows the positions of the bars when the detachable bars are removed from the plates and applied to the ends of the box or crate. The drawing shows, in one figure, three detachable bars, and in the other figure, two detachable bars applied to the ends of the box or crate. From this it will be understood that the number of detachable bars is immaterial, as two, or three, or even more or less, may be employed, as the character of the goods or the dimensions of the box or crate may require. Also, the number of fixed bars may be varied, if desired, the idea being that the same structural arrangement of the fixed and detachable bars is preserved, irrespective of the number of bars employed.

Having thus described the invention, what is claimed as new is:

1. A box attachment comprising plates, bar sections permanently connected with the plates and telescopically engaging each other, and other bar sections detachably connected with the plates and telescopically engaging each other.

2. A box attachment comprising plates, bar sections permanently attached to the plates and telescopically engaging each other, strips connected with the plates, and bar sections having at their ends flanges which fit between the strips on the plates, the last mentioned bar sections telescopically engaging each other.

3. A box attachment comprising plates having intumed flanges, bar sections secured to the flanges and telescopically engaging each other, and bar sections detachably mounted upon the flanges and telescopically engaging each other.

4. A box attachment comprising plates having intumed flanges, bar sections fixed with relation to the plates and telescopically engaging each other, strips carried against the inner sides of the plates and having flanges, and bar sections located between the flanges of the plates and the strips and telescopically engaging each other, the last mentioned bar sections having flanges which lie between the plates and the strips.

5. A box attachment comprising plates having intumed flanges and provided with

slots, bar sections fixed with relation to the plates and telescopically engaging each other, bolts passing through the slots, strips mounted at the inner portions of the bolts and having flanges, and bar sections lying between the flanges of the strips and the plates and telescopically engaging each other, the last mentioned bar sections having

flanges which are clamped by the bolts between the plates and the strips. 10

In testimony whereof, I affix my signature in presence of two witnesses.

HARRY W. WILLIAMS. [L. S.]

Witnesses:

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GEO. C. POWERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."