No. 709,663. Patented Sept. 23, 1902.

B. BUDWEISER.

DISPLAY BOX.

(Application filed May 21, 1902.)

(No Model.)

Fig. 1

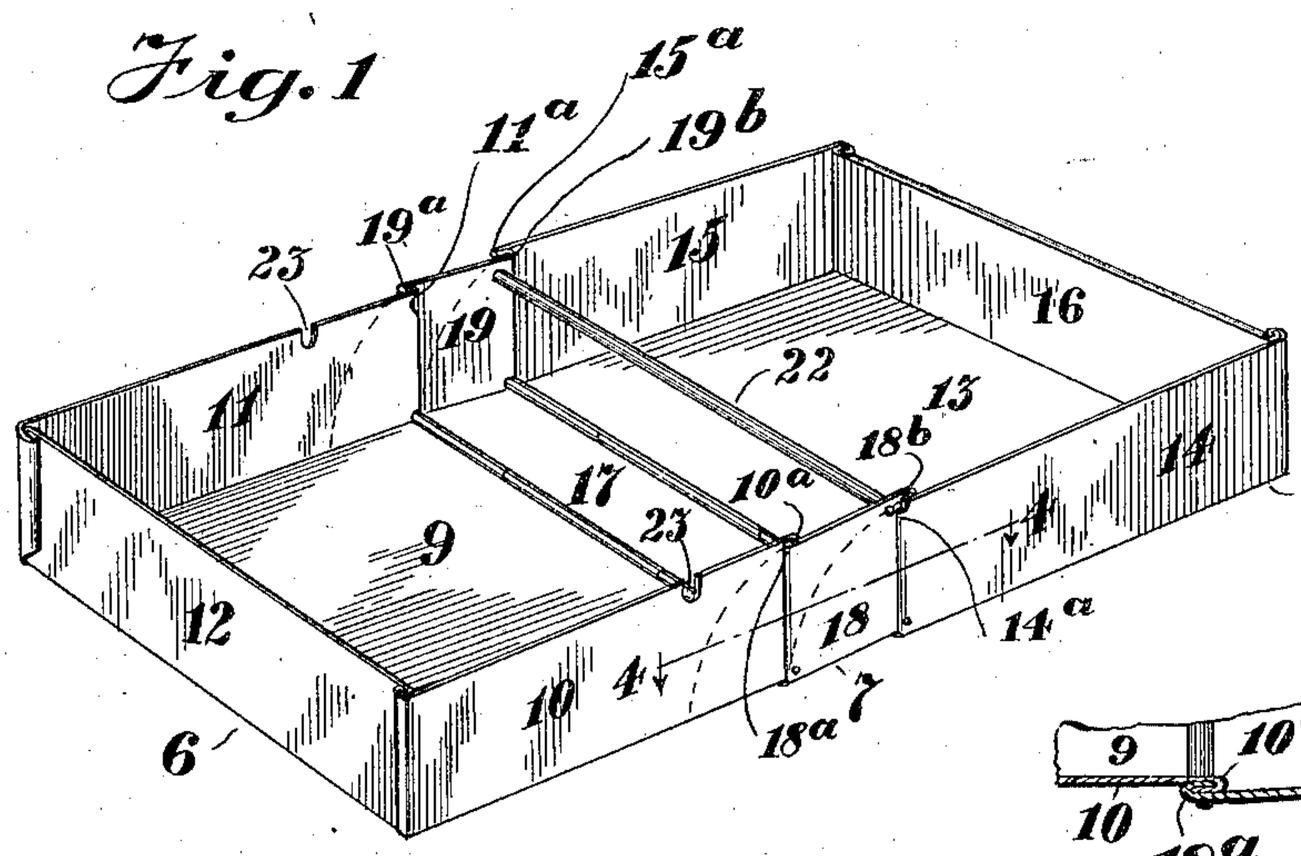


Fig. 4

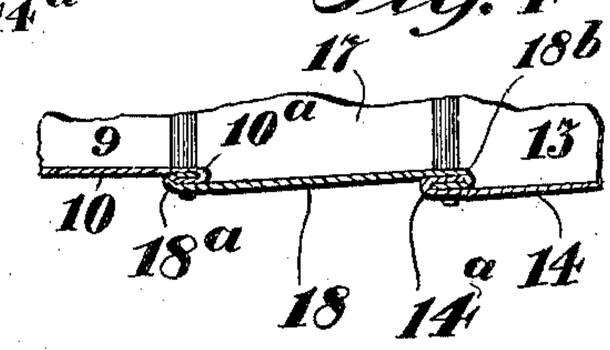


Fig. 2

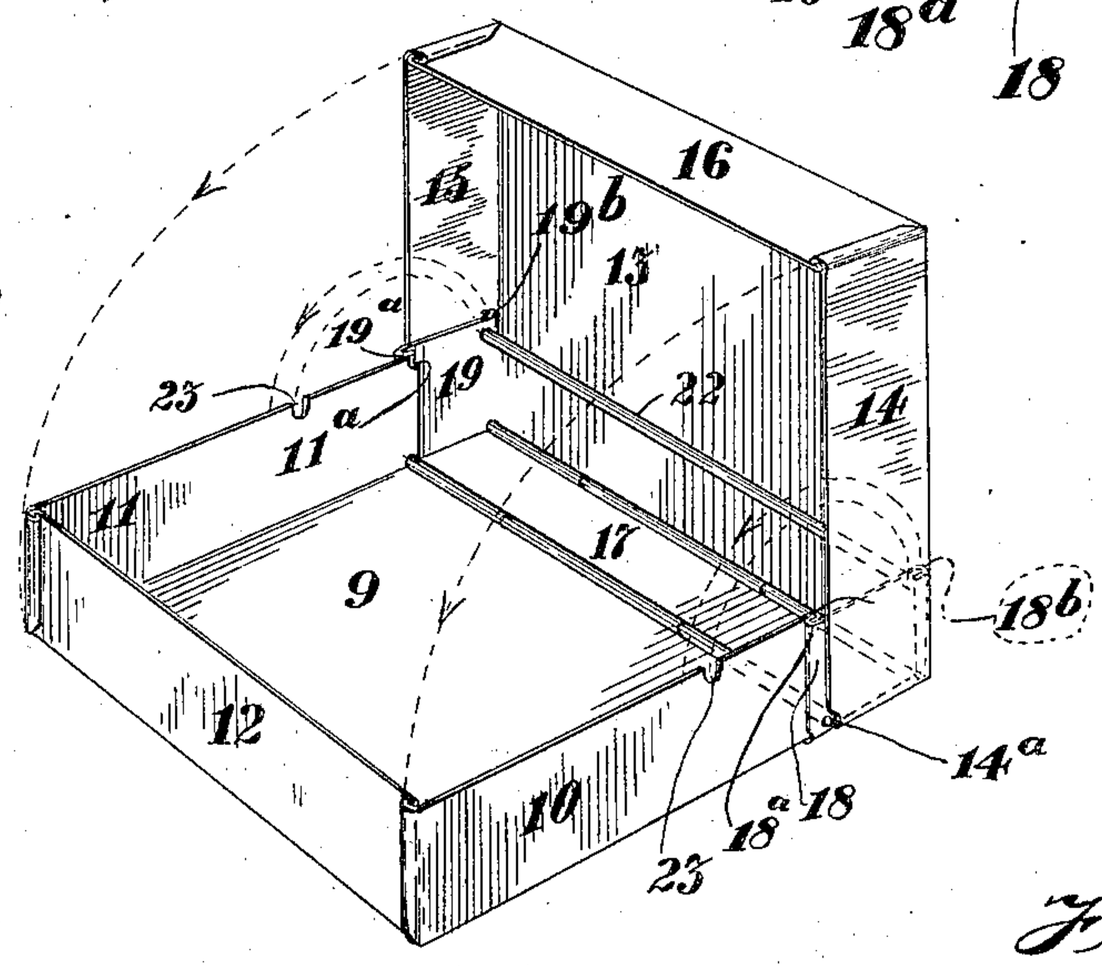


Fig. 3

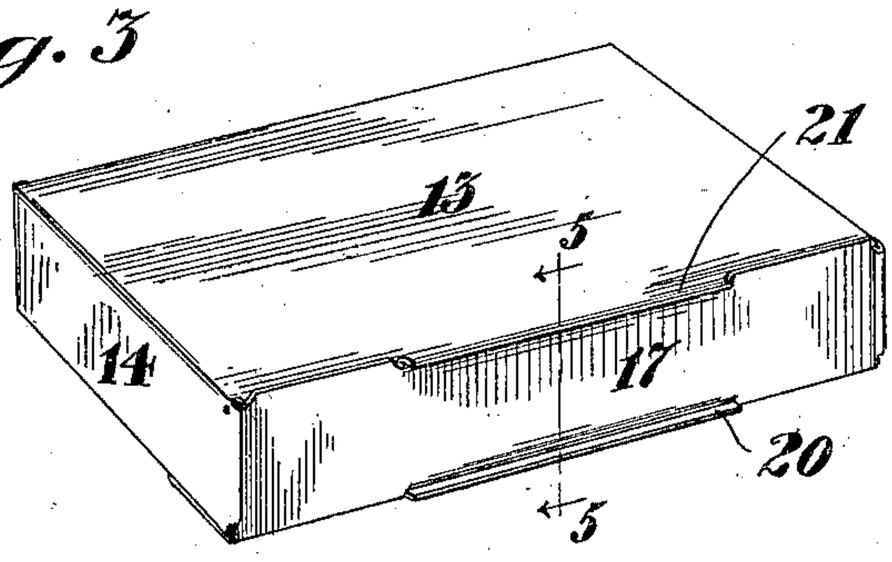
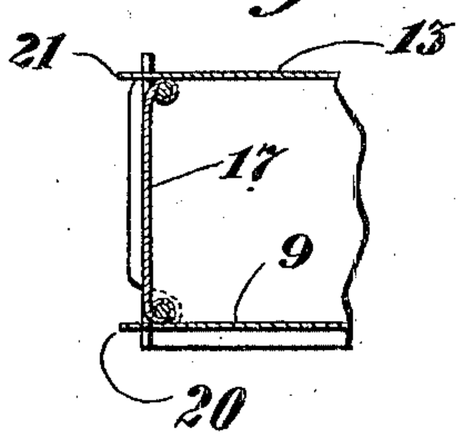


Fig. 5



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UNITED STATES PATENT OFFICE.

BERNHARD BUDWEISER, OF CHICAGO, ILLINOIS.

DISPLAY-BOX.

SPECIFICATION forming part of Letters Patent No. 709,663, dated September 23, 1902.

Application filed May 21, 1902. Serial No. 108,326. (No model.)

To all whom it may concern:

Be it known that I, BERNHARD BUDWEISER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sample-Display Boxes, of which the following is a specification, reference being had to the accompanying drawings.

My invention pertains to boxes adapted for the display of samples, such as coffee, rice, or any other similar article of merchandise; and its object is to provide a box which may be completely closed, so as to retain the article of merchandise contained therein, and which may be conveniently opened out, so as to form a tray for the display of such merchandise. I accomplish this object as hereinafter specified and as illustrated in the drawings.

That which I regard as new will be set forth in the claims.

Referring to the drawings, Figure 1 is an isometric view of the box, showing it open in the form of a tray. Fig. 2 is an isometric view showing the box partially closed. Fig. 3 is an isometric view showing the box completely closed so as to contain the sample. Fig. 4 is an enlarged detail, being a cross-section on line 4 4 of Fig. 1; and Fig. 5 is an enlarged detail, being a cross-section on line 5 5 of Fig. 3.

In the drawings the box of my invention consists of three parts, 6, 7, and 8. The part 6, which is preferably made of a single piece of metal, is formed with a bottom 9, ends 10 and 11, and side 12, so as to form a partially-completed box, open at the top and at one end. As was said, this is preferably made of a single piece, formed from a suitable blank and bent up into the shape shown. It may, however, of course consist of several pieces.

The part 8 is formed with a bottom 13, ends 14 15, and side 16, forming a partial box open at one side and on the top. The part 8 is made somewhat larger than the part 6 in order that it may shut down over it and over the portion 7, as hereinafter described.

The ends of the two end pieces 10 and 11 are bent outward into a hook-like shape 10^a and 11^a and the ends of the end pieces 14 and 15 are bent inward into a hook-like shape 14^a 15^a, as is best shown in Fig. 4.

The part 8, like the part 6, is preferably formed of one piece bent from a suitably-cut blank, but may of course be formed of several pieces.

The part 7 consists of a bottom 17 and two upturned portions 18 19. These upturned end portions 18 19 are somewhat wider laterally than the width of the bottom 17, measured across said bottom, whereby when the box is open, as shown in Fig. 1, the end pieces 18 19 may project slightly beyond the ends of the side pieces 10 11, 14 15 of the parts 6 and 8 in order to afford a support for the end pieces 18 19 and for the inner ends of the side pieces 10 11.

The parts 6 and 8 have their bottoms 9 and 13 hinged at their open ends to the sides of the bottom 17 of the part 7. The length of the bottom 17 of the part 7 is slightly greater than the length of the bottom 9, to which it is hinged, so that when the box is closed, as hereinafter described, the upturned ends 18 and 19 may pass outside of the end pieces 10 and 11, respectively. The side edges of the upturned end pieces 18 and 19, which lie toward the part 6, are bent inward into a hook-like shape 18^a 19^a in order to engage the bent ends of the end pieces 10 and 11 when the box is opened, and the edges of the upturned ends 18 and 19, which lie toward the part 8, are each bent outward into a hook-like shape 18^b 19^b for the purpose of engaging the bent ends of the parts 14 15 when the box is opened, as is best shown in Figs. 1 and 4, thus affording a stop which limits the opening of the box. I may also provide the bottom pieces 9 and 13 with projecting portions 20 21, which when the box is opened will bear against the bottom of the bottom piece 17, and thus also provide a stop for limiting the opening of the box. The box 8, as was said above, is larger than the part 6 in its side-to-side diameter and is also longer in the same diameter than the length of the bottom piece 17, so that the ends of the end pieces 14 and 15 are outside the bent-up portions 18 and 19 and pass over outside them when the box is closed.

22 indicates a cross-bar which is secured to the upper corners of the end pieces 18 and 19 nearest the part 8 and which serves as a handle by which the box when open may be lifted or carried. The end pieces 10 and 11

are provided with notches 23, into which the cross-bar 22 may fit when the box is closed.

When it is desired to close the box, the contained sample is slid down into the part 6 and the part 8 turned up on its hinge on the bottom piece 17 into the position shown in Fig. 2, the hook edges of the parts 14 15 of course being free from the corresponding hook edges of the end pieces 18 19. As the movement is continued in the direction of the arrows shown in Fig. 2 the part 7 turns upon the hinge between its bottom 17 and the bottom 9 of the part 6, and the hook edges of the parts disengaging the ends 18 and 19 come down over and outside the end pieces 10 and 11 of the part 6, and the part 8 comes down over the part 6, with the end pieces 14 15 and side piece 16 outside of the end pieces 10 11 and side piece 12 of the part 6, forming a completely-closed box, what has been the bottom part 17 of the part 7 forming one end of the closed box, as is shown in Fig. 3. As the parts are thus closed the handle 22 comes down into the notches 23, so as to permit a complete closing of the box. When the box is opened out, the motion is reversed, and the hook edges of the several parts above described engaging one another the box is held open in the position shown in Fig. 1 and its motion limited to the position therein shown. The stops 20 and 21 will also limit the motion of the parts in the same way. They may, however, be omitted, if desired.

The box is preferably constructed of sheet aluminium, but may of course be constructed of any other suitable material.

By means of the construction above described I provide a box which when closed will safely and securely hold grains of coffee, rice, sugar, or any other merchandise of similar description. It will also when opened out make a suitable tray for the display of such samples, which may be shaken out over the entire surface of the bottom of the tray so formed when opened to expose the samples to inspection and view. It is also so formed that when moved from its closed to its open position or from its open to its closed position the contained goods will not spill from the box, and when so closed the box may be packed away. It is to be observed that in opening or closing the box no open ends are exposed through which the contained goods might escape in the process of opening or closing.

That which I claim as my invention, and desire to secure by Letters Patent, is—

1. A folding box, composed of two end members, and an intermediate member pivotally connecting said end members together and consisting of a bottom and two stiff ends wider transversely than the bottom and substantially at right angles therewith, one of said end members being adapted to fold over upon the other and with said intermediate member inclose the same, substantially as described.

2. A folding box, composed of two end members, an intermediate member pivotally connecting said end members together and consisting of a bottom and two stiff ends wider transversely than the bottom and substantially at right angles therewith, one of said end members being adapted to fold over upon the other and with said intermediate member inclose the same, and a cross-bar connecting said stiff ends together, substantially as described.

3. A folding box, composed of two end members, an intermediate member pivotally connecting said end members together and consisting of a bottom and two stiff ends wider transversely than the bottom and substantially at right angles therewith, one of said end members being adapted to fold over upon the other and with said intermediate member inclose the same, and stops adapted to limit the opening of said box, substantially as described.

4. A folding box, composed of two end members, each forming a box-like division open at the top and one side, and an intermediate member pivotally connecting said end members together and consisting of a bottom and two stiff ends wider transversely than said bottom and substantially at right angles therewith, one of said end members being slightly larger than the other and adapted to fold over upon it and with said intermediate member to inclose the same, said intermediate member being adapted when the box is open to form a portion of the bottom and sides of the open box, substantially as described.

5. A folding box, composed of two end members, each consisting of bottom, sides and end portions, and an intermediate member pivotally connecting said end members together and consisting of a bottom and two stiff ends wider transversely than said bottom and substantially at right angles therewith, one of said end members being adapted to fold over upon the other end member and with said intermediate member to inclose the same, said intermediate member being adapted when said box is open to form a portion of the bottom and sides of the open box, the ends of said intermediate member being adapted when said box is closed to lie between the side portions of the end members, on their respective sides of the box, substantially as described.

6. A sample-display box, consisting of a member composed of a bottom, two sides and an end, a second member composed of a bottom, two sides and an end and adapted to shut down over said first member, and a connecting member pivotally connected at its sides with said first two members and composed of a bottom and two stiff ends substantially at right angles therewith, and stops adapted to limit the opening of said box, whereby when said box is open said connecting member will form a portion of the sides

and bottom of the open box and when said box is closed, the end pieces of said connecting member will be inclosed within said box and the bottom of said connecting member will inclose said first member, substantially as described.

7. In a sample-display box, the combination with a member composed of a bottom, two sides and an end, of a second member composed of a bottom, two sides and an end and adapted to shut down over said first member, a connecting member hinged along the sides of its bottom to said first and second members and composed of a bottom and two stiff ends, the ends and bottom of said connecting member, when said box is open, forming a part of the sides and bottom of said open box, and the ends of said connecting member, when said box is closed, shutting outside of the sides of the first member and inside the sides of the second member, and stops adapted to limit the opening of said box, substantially as described.

8. In a sample-display box, the combination with a member composed of a bottom, two sides and an end, of a second member composed of a bottom, two sides and an end and adapted to shut down over said first member, a connecting member composed of a bottom and two stiff ends and hinged along the sides of its bottom to said first and second members, the ends and bottom of said connecting member, when said box is opened, forming a part of the sides and bottom of said open box, the ends of said connecting member, when said box is closed, shutting outside of the sides of the first member and inside the sides of the second member, and stops adapted to limit the opening of said box, substantially as described.

9. In a sample-display box, the combination with a member composed of a bottom, two sides and an end, of a second member composed of a bottom, two sides and an end and adapted to shut down over said first member, a connecting member composed of a bottom and two stiff ends and hinged along the sides of its bottom to said first and second members, the ends and bottom of said connecting member, when said box is opened, forming a part of the sides and bottom of said open box, the ends of said connecting member, when said box is closed, shutting outside of the sides of the first member and inside the sides of the second member, stops adapted to limit the opening of said box, and a cross-bar secured to the ends of said connecting member, substantially as described.

BERNHARD BUDWEISER.

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