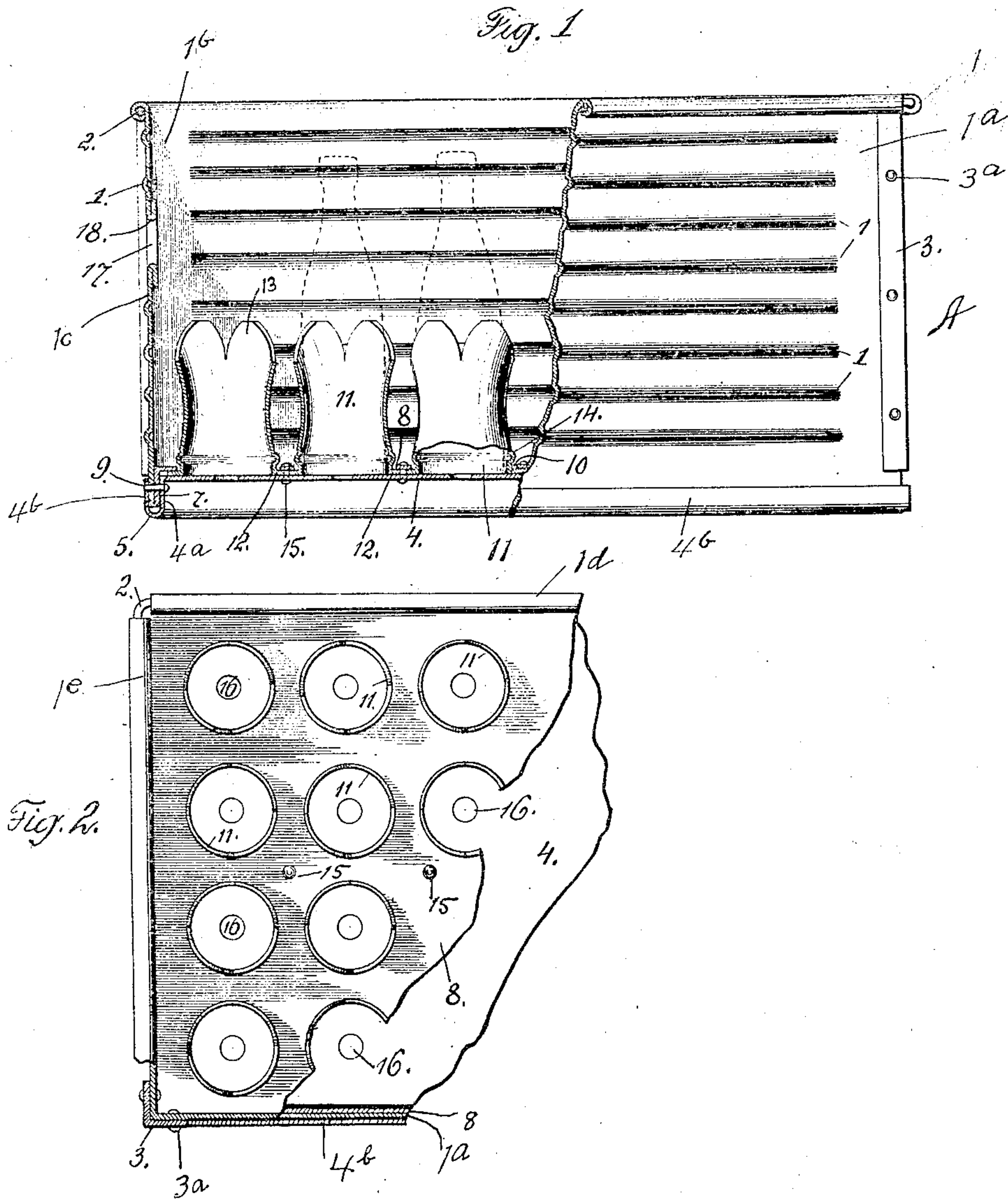


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WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES H. MEYERS, OF ALLEGHENY, PENNSYLVANIA.

BOX AND CASE.

935,388.

Specification of Letters Patent.

Patented Sept. 28, 1909.

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To all whom it may concern:

Be it known that I, CHARLES H. MEYERS, a citizen of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Boxes and Cases, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to boxes and cases, especially adapted for containing bottles, such as beer bottles and the like.

The primary object of the invention is to provide a metallic box or case of inexpensive and durable construction adapted to withstand the rough usage to which beer boxes or cases are ordinarily subjected, and at the same time to firmly support the bottles within the box or case to avoid breakage.

20 A further object of the invention is to provide a metallic box or case for bottles, so constructed as to insure a sanitary condition of the case by providing drainage openings in the bottom thereof.

25 The construction of the improvement will be fully described hereinafter in connection with the accompanying drawing which forms a part of this specification, and its novel features will be defined in the appended claims.

30 In the drawing, Figure 1 is a side elevation, partly broken away, and partly in vertical section of a box or case, embodying the invention, and, Fig. 2 is a fragmentary top plan view of the same broken away and partly in horizontal section at one corner of the box slightly above and below the bottom.

35 Referring to the drawings in detail the box or case comprises side walls 1^a, 1^b and end walls 1^c. Each of these walls is formed with longitudinally-extending corrugations 1, whereby the walls are stiffened or reinforced. The top of each of the side walls 1^a and 1^b is formed with a bead 1^d and the top of each of the end walls 1^c also formed with a bead 1^d. The beads 1^d are separated at the corners of the box or case from the beads 1^c. The beads 1^a and 1^b are formed by overlapping the upper portion of the said walls and the said beads inclose a rectangular wire frame 2, whereby a rigid top edge for the box or case is obtained.

50 The box or case which is referred to generally by the reference character A, is reinforced at its corners through the medium of angle plates 3. These plates are of less

length than the height of the box or case and at their upper ends bear against the lower face of the beads, the lower end of said angle plates being positioned at a point removed 60 from the bottom of the box or case. The angle plates 3 are so disposed that each will overlap a side wall and an end wall and the said angle plates are secured in position by the hold-fast devices 3^a.

65 The bottom of the box or case is formed of two elongated plates, one superposed over the other. The lower plate which is indicated by the reference character 4 has the marginal portions thereof bent downwardly 70 as at 4^a and then upwardly as at 4^b to provide a groove 5 in which are seated the side and end walls. The upper plate which is indicated by the reference character 8 is provided with a depending flange 7 which 75 extends in the groove 5 and against the inner face of the side and end walls. The side and end walls, flanges 7 and portions 4^a and 4^b of the lower plate 4 are secured together by the transversely-extending rivets 9.

80 The upper plate 8 is provided with a series of circular openings 10 through which extend cylindrical bottle holders 11 which are open at both ends, the openings 10 being preferably arranged in equi-distant rows as 85 shown. Each of the bottle-holders 11 is provided at its lower end with an annular laterally-extending flange 12 adapted to be positioned between the lower plate 4 and upper plate 8 whereby the said holders are 90 maintained in an upright position. The bottle holders are each formed with an annular bead 14. The upper end of the bottle-holders are slitted and bent outwardly so as to provide flaring mouths 13 to facilitate the 95 insertion and removal of the bottles. The openings 10 are of such diameter as to permit the passage of the beaded bottle holders when positioning the latter from the underside of the plate 8, the beads 14 resting on 100 the upper face of the upper plate 8, and adding to the rigidity of the connection between the holders and bottom.

The two plates which constitute the bottom of the box or case are riveted at any 105 suitable point between the holders as indicated by the reference character 15.

The lower plate 4 of the bottom is provided with small circular openings 16 arranged below the large circular openings 10 110 of the upper plate 8. These openings 16 permit of the escape of liquid from the bottle-

holders, thus preventing any accumulation of water or other liquid which might otherwise render the box or case unsanitary.

To facilitate the handling of the box or case, each of the end walls is formed of a horizontally-extending slot 17, the edges of walls of each of said slots being bent inwardly upon themselves to provide rounded gripping surfaces as at 18. The slots 17 provide convenient hand grasps as is obvious.

The corrugations formed in the walls of the box permit of the employment of thin light metal when setting up the box, and as the box is constructed of metal it is obvious that it is unusually strong and durable.

What I claim and desire to secure by Letters Patent, is:—

1. A box or case for bottles, comprising a body portion of sheet metal, and a bottom consisting of two layers of sheet metal, the upper layer being formed with openings and with depending edge flanges, and the lower layer having edge grooves to receive said flanges and the lower edges of the body, means for securing the bottom to the body of the box, and bottle holders secured within said openings.

2. The combination with a sheet metal box or case, comprising corrugated sides and ends, and a bottom consisting of two layers of sheet metal, the upper one of which is formed with openings and depending edge flanges, and the lower layer being provided with edge grooves to receive said flanges, and the lower edges of the sides and ends, of bottle holders fitting said openings, and having annular horizontal flanges at their lower ends clamped between the two layers of the bottom.

3. The combination with a sheet metal box or case comprising longitudinally corrugated sides and ends, and a bottom consisting of two layers of sheet metal, the upper layer being formed with openings, and with depending edge flanges, and the lower layer having drain openings, and edge grooves, of metallic bottle holders fitting the openings

in the inner layer, said bottle holders having annular horizontal flanges at their lower ends clamped between the two bottom layers, and flared at their upper ends.

4. A receptacle for bottles comprising side and end walls, a bottom formed of an upper and a lower member connected with the side and end walls, said upper member having a plurality of openings, and bottle holders extending through the said openings and having the lower portion clamped between said members, said lower member formed with a plurality of openings of less diameter than the openings in the upper member.

5. A receptacle for bottles comprising side and end walls, a bottom formed of an upper and a lower member, said lower member having a bent marginal portion secured to the side and end walls and to the upper member, said upper member provided with a plurality of openings, bottle holders extending through the openings of the upper member and having the lower portion thereof clamped between the said members thereby maintaining the bottle holders in an upright position.

6. A receptacle for bottles comprising side and end walls, a bottom formed of an upper and a lower member, said lower member having a bent marginal portion secured to the side and end walls and to the upper member, said upper member provided with a plurality of openings, bottle holders extending through the openings of the upper member and having the lower portion thereof clamped between the said members thereby maintaining the bottle holders in an upright position, said lower member provided with a plurality of openings of less diameter than the openings in the upper member, the openings in the lower member arranged below the openings in the upper member.

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

CHARLES H. MEYERS.

Witnesses:

MAX H. SROLOVITZ,

A. J. TRIGG.