

Dec. 8, 1936.

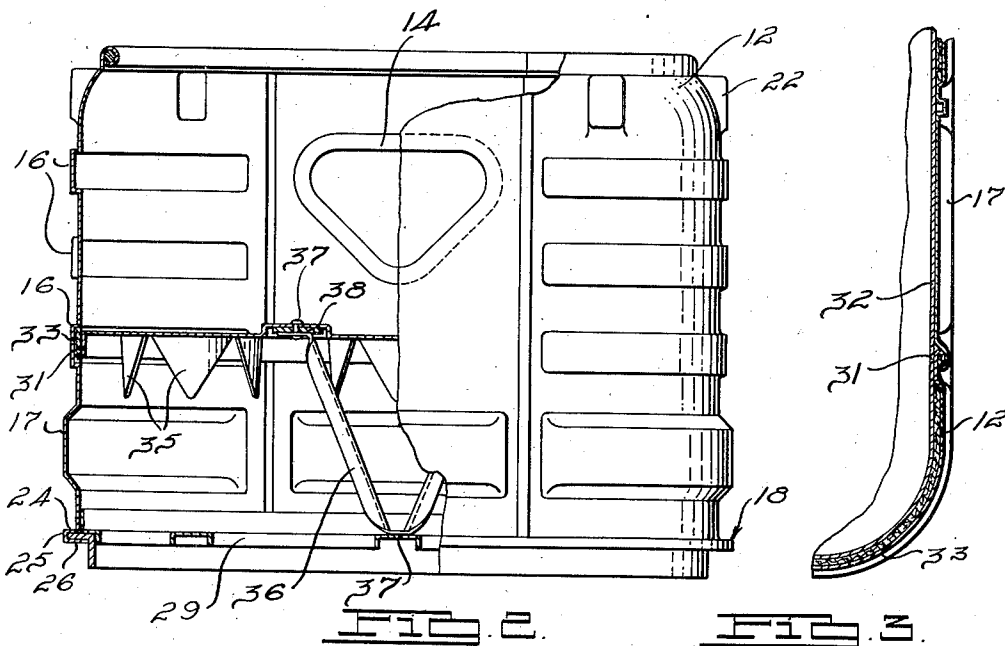
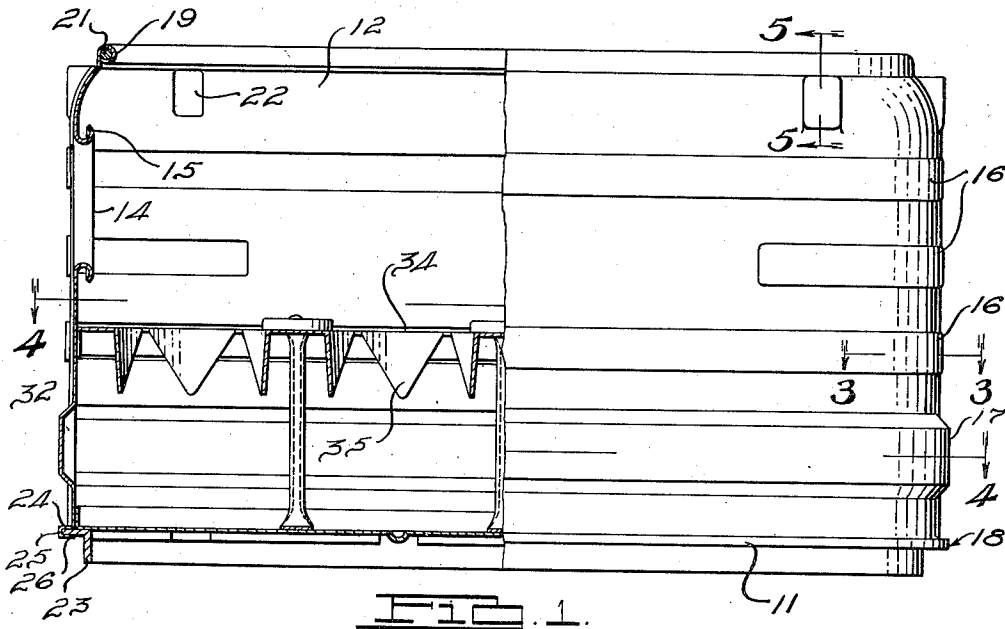
B. T. LINDELL

2,063,390

BOTTLE CASE

Filed Nov. 6, 1933

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

FIG. 4.

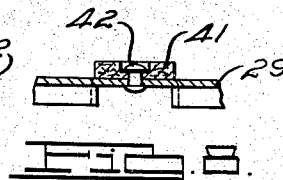
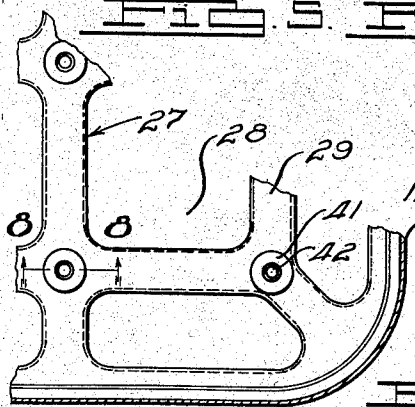
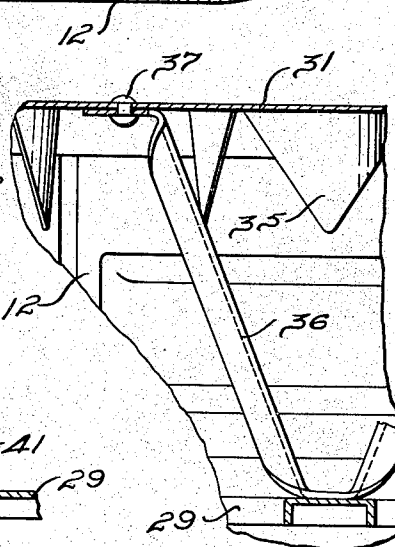
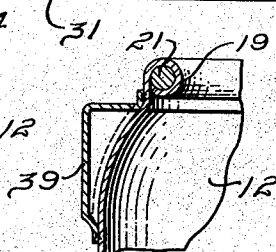
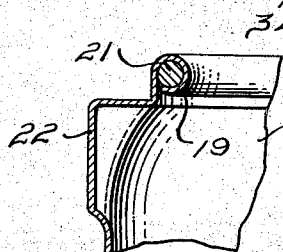
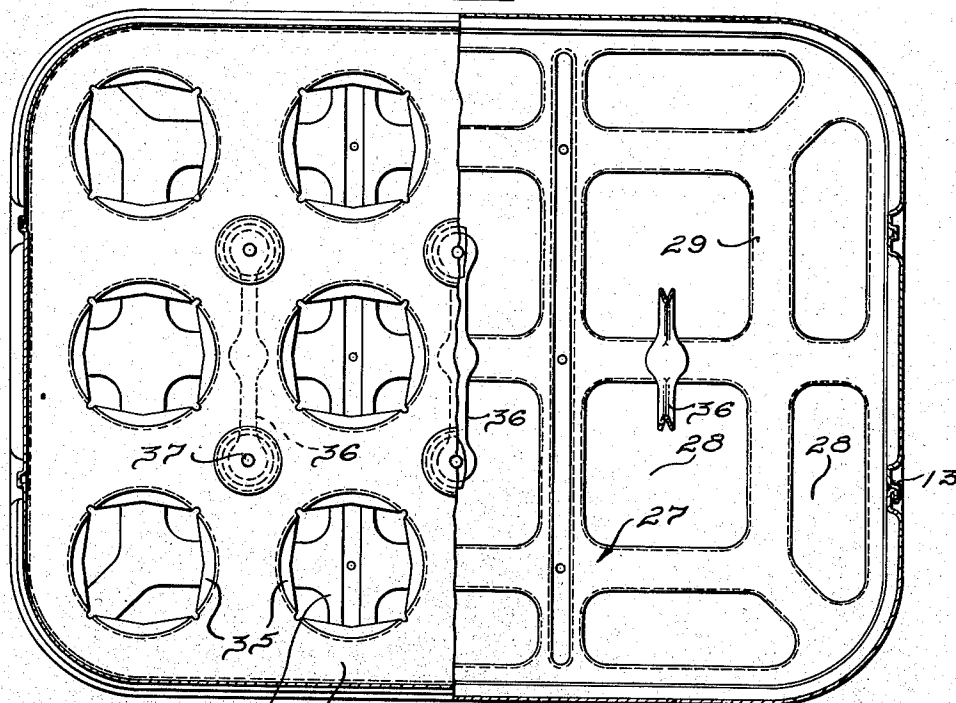


FIG. 7.

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UNITED STATES PATENT OFFICE

2,063,390

BOTTLE CASE

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Application November 6, 1933, Serial No. 696,749

2 Claims. (Cl. 220—21)

My invention relates to cases and particularly to a carrying and storage case for bottles.

Cases heretofore have been made of various materials, metal, wood and the like, or a combination of various materials having primarily sides, bottom and a central apertured partition for positioning the bottles separate from each other. Stacking elements have been provided on the top of the cases so that one case may rest upon another. While these cases have proven more or less satisfactory, considerable improvement has been embodied in my present case which is herein illustrated and described.

The case is made of two like stampings which form the sides when secured together, and a bottom and an apertured partition are mounted in the sides in an improved manner. The noise has been eliminated to a great extent which is an objectional feature in the cases now employed. This is accomplished by employing cushioning means between the partition and sides and by preforming the side portions and bottom to prevent the drumming which was present heretofore. A novel stacking feature is provided by lugs extending outwardly from the inwardly disposed top edge of the case over which the cases readily slide once they are lifted over the edge. The bottom edge is provided with a metal angle member which withstands wear and supports the case against weaving or bending which would otherwise occur.

Accordingly, the main objects of my invention are to construct a case of metal having cushioning means therein to dampen the sound which might otherwise be produced; to construct a case having sides made of like metal elements which are joined together in off center relation; to provide a partition in the case which is mounted with its edges butted against a sound-proof material; to brace the partition by means which rigidly retain the partition against the possibility of producing sound; to provide an angle bottom element for the case which prevents the metal of the case from being worn or deformed; to provide stacking lugs along the top of the case outwardly of the inner edge thereof upon which the angle member may rest; and, in general, to construct a case which is simple in construction, economical of manufacture and which is rugged to withstand shock and abuse.

Other objects and features of novelty of my invention will be either specifically pointed out or will become apparent when referring, for a better understanding of my invention, to the fol-

lowing description taken in conjunction with the accompanying drawings, wherein:

Figure 1 is a broken view in elevation of a bottle case embodying features of my invention, Fig. 2 is a broken end view, partly in section, of the case illustrated in Fig. 1,

Fig. 3 is an enlarged broken sectional view of the structure illustrated in Fig. 1, taken on the line 3—3 thereof,

Fig. 4 is a sectional view of the case illustrated in Fig. 1, taken on the line 4—4 thereof,

Fig. 5 is an enlarged broken sectional view of the structure illustrated in Fig. 1, taken on the line 5—5 thereof,

Fig. 6 is a view of structure similar to that illustrated in Fig. 5, showing a modified form thereof,

Fig. 7 is an enlarged broken view of the structure illustrated in Fig. 4, showing a modified form thereof,

Fig. 8 is an enlarged sectional view of the structure illustrated in Fig. 7, taken on the line 8—8 thereof, and

Fig. 9 is an enlarged view of structure similar to that illustrated in Fig. 2, showing a modified form thereof.

The case 11 is formed of two side portions 12, as illustrated more clearly in Fig. 4, being made of like stampings joined together by welding or crimping as at 13. This offset joinder of the two elements 12 permits the construction of the handhold portions 14 constructed by reversely bending the pressed-in flange 15, as illustrated more clearly in Fig. 1. The sides are constructed of pressed-out portions 16 which prevent the drumming of the metal when handled and a larger pressed-out portion 17 is provided at the bottom to be flush with the bottom edge 18 to prevent the metal at this point from withstanding all the lateral shock.

The upper marginal edge 19 of the side portions are rolled about a frame made of a rod 21 to form a solid terminal edge which strengthens the edge and likewise the case. The top of the sides 12 is curved inwardly and is provided with outwardly pressed lugs 22 to form stacking elements upon which another crate may be positioned to be retained against lateral misalignment by the terminal end 19 which projects thereabove.

The bottom of the case is provided with an angle frame 23 which is bent to the shape of the case with its ends preferably welded together to form a unit construction. The bottom edges of the sides are flanged outwardly at 24, 55

flanged downwardly at 25 and reversely flanged at 26 to encompass the outwardly extending web of the frame 23. The downwardly extending web of the frame 23 constitutes the bottom of the case upon which it may be stood or slid across the floor without damage to the lighter gauge material which forms the sides 12 of the case. The sides thus constructed are extremely rigid and will be prevented from flexing in any plane. The angle frame 23 is of such size as to rest upon the protruding lugs 22 within the confines of the terminal end 19 of the upper edge of the case.

A bottom element 27, as illustrated more clearly in Fig. 4, is stamped out of sheet material having cut-out portions 28 therein, the edges of the web therebetween are flanged downwardly to form a grill work 29 of channel section, as illustrated in Figs. 1, 2, 8 and 9. This construction not only materially lightens and strengthens the bottom of the case, but also prevents the unnecessary drumming which would occur when the bottles are dropped thereon.

A partition 31 is mounted medially between the top and bottom of the case, being secured to the sides 12 at 32, as illustrated in Fig. 3. As illustrated more particularly in Fig. 2, the partition 31 is mounted adjacent to the medial pressed-out portion 16 of the case in which a sound deadening strip 33 of rubber, felt or the like is disposed and against which the remainder of the edge of the partition, not secured at 32, abuts to deaden the sound between the side 12 and the partition and to further prevent the partition and sides from developing sound. The partition is provided with a plurality of cut-out openings 34 having the material thereof pressed downwardly, at 35, to form flexible tongues as illustrated more clearly in Figs. 1 and 2 for contacting the body of the bottle to prevent any lateral movement thereof.

A brace 36 is secured to the central rib portion 37 of the grill work 29 by rivets, welding or other securing means 37. The braces are of V shape, the two extending arms thereof engaging the partition 31 at spaced points, as illustrated more clearly in Figs. 2 and 4 and to which they may be retained by securing means 37. In Fig. 4, I have illustrated the employment of sound deadening washers 38 made of rubber, felt or the like which further breaks up the possibility of sound development. In Fig. 9, I have illustrated the same construction where the arms may be secured directly to the partition 31 where they will remain solidly joined and will thereby prevent the development of sound.

In Fig. 6, I have illustrated a lug 39 secured to the curved portion of the side 12 by welding,

brazing or the like which eliminates the drawing operation which will be required on the construction illustrated in Fig. 5.

As a further extension of my invention, I may employ a plurality of sound deadening washers 41 secured on the grill work 29 of the bottom 27, secured in concentric relation to the openings 35 in the portion 31 to be engaged by the bottoms of the bottles when they are pushed through the openings 34 of the partition. The elements may be made of rubber, felt, or the like and may be made in the nature of a button which may be pushed through an opening or may be riveted directly to the frame 27 by rivets 42 as illustrated in Fig. 8. In any construction, the employment of the sound deadening washers further prevents the rattling of the bottle and metal when the case is handled or when the bottles are inserted or removed therefrom.

The case thus constructed is exceedingly rigid and will stand considerable shock and wear in view of the heavy angle member employed as the bottom element upon which the case is built. The rigid bottom and top elements prevent the case from weaving or becoming distorted and at the same time enables the case to stack with any of the standard crates employed today. The novel stacking feature effected by the employment of the lugs outwardly and below the top marginal edge is of considerable advantage as the case will slide along the top edge when once lifted thereon from the stacking lugs.

While I have described and illustrated several embodiments of my invention, it will be apparent to those skilled in the art that various changes, omissions, additions and substitutions may be made therein without departing from the spirit and scope of my invention, as set forth in the accompanying claims.

I claim as my invention:

1. A case including metal sides having an inwardly curved top portion, a bottom frame for said case of angle cross section, flanges on the bottom of said sides formed about one web of the frame for securing the sides thereto, and a frame element about which the upper edge of said case is rolled.

2. A case including metal sides having an inwardly curved top portion, a bottom frame for said case made of angle cross section, flanges on the bottom of said sides formed about one web of the frame for securing the sides thereto, a frame element about which the upper edge of said case is rolled, and extending lugs below said upper edge forming stacking elements for the case.

BERTIL T. LINDELL.