Oct. 14, 1924. 1,511,606

E. W. HAMANN

BOTTLE CASE

Filed June 23, 1923

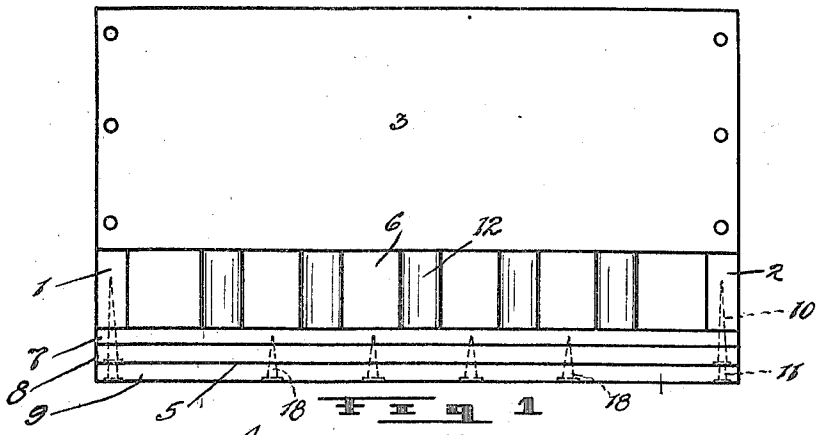


FIG 1

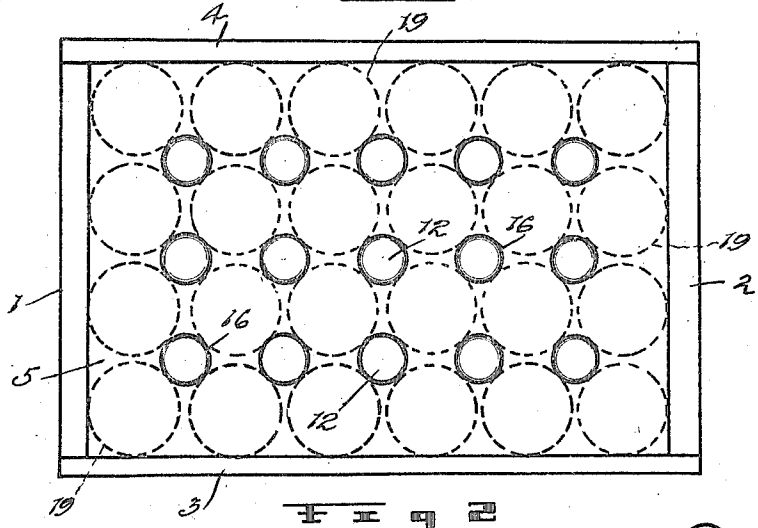


FIG 2

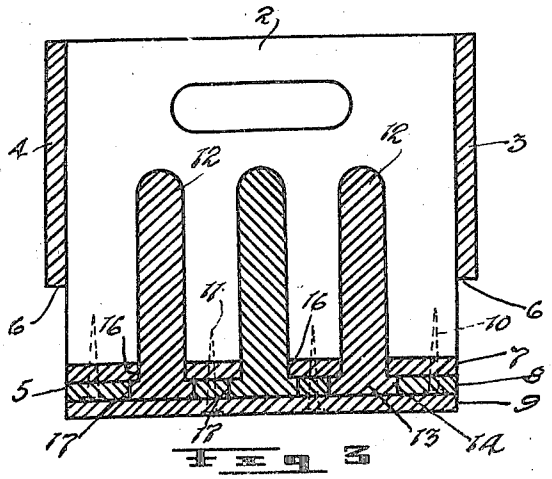


FIG 3

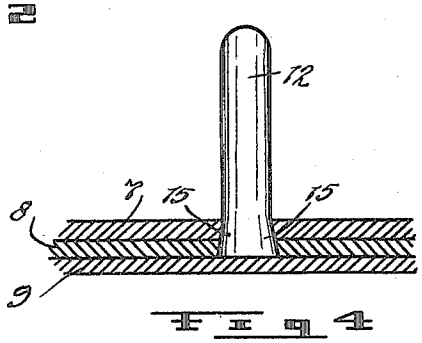


FIG 4

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UNITED STATES PATENT OFFICE.

EDWARD WILLIAM HAMANN, OF WINNIPEG, MANITOBA, CANADA.

BOTTLE CASE.

Application filed June 23, 1923. Serial No. 647,281.

To all whom it may concern:

Be it known that I, EDWARD WILLIAM HAMANN, of the city of Winnipeg, in the Province of Manitoba, Canada, have invented certain new and useful Improvements in Bottle Cases, of which the following is the specification.

The invention relates to improvements in bottle cases of the kind such as are utilized for shipping soft drinks and an object of the invention is to provide a case which can be manufactured at comparatively small cost and which will effectively prevent breakage of the bottles placed therein, a feature of the invention being also that the case is comparatively small, although it has a large capacity for bottles.

A further object is to construct a case having upstanding posts separating the bottles and to provide a particularly effective means for fastening the posts to the bottom of the box, said fastening means being designed so that the posts can be quickly put in place when the bottom is being assembled and such that they will be permanently held in place when the bottom is completed.

With the above more important objects in view the invention consists essentially in the arrangement and construction of parts hereinafter more particularly described and later pointed out in the appended claims, reference being had to the accompanying drawing in which:

Fig. 1 is a side view of the bottle case.

Fig. 2 is a plan view thereof.

Fig. 3 is an enlarged detailed vertical sectional view centrally through the case.

Fig. 4 is a side view of a modified form of post or pin and showing the manner in which it is held in place in the bottom of the box.

In the drawings like characters of reference indicate corresponding parts in the several figures.

The case is substantially rectangular and embodies two end boards 1 and 2, side boards 3 and 4 connecting the end boards, and a bottom 5 which is formed from several boards. The sides are nailed or otherwise fastened to the ends and here it will be observed that the sides do not go fully down to the bottom and in this way a clearance space 6 is reserved at each side of the box to allow of the ready cleaning out of the same, as by sweeping or flushing. The bottom of the box is formed from three pieces 7, 8 and 9, and when these are applied the pieces 7 and 8 are first fastened by nails or such like 10 to the box ends and then the piece 9 is fastened by further nails 11.

In the box I have located a plurality of similar equi-length posts 12 which are secured to the bottom of the box and are utilized to space and separate the bottles placed therein. Each post is provided with an enlarged lower end 13. In Fig. 3 the lower end of the post is in the form of a flat head 14 of larger diameter than the post body and of a thickness equal to the thickness of the board 8. In Fig. 4 the lower end of the post is in the form of a tapering head 15 having the base thereof of greater diameter than the post body and the length or thickness of the head is approximately equal to the thickness of the boards 7 and 8. As hereinbefore stated, the post shown in Fig. 4 is simply a modified form of post as I prefer to use the form of post shown in Fig. 3. When the posts, as shown in Fig. 3, are used the board 7 is bored to provide properly and equi-spaced openings 16 which make a sliding fit with the bodies of the posts and the board 8 is bored to provide openings or holes 17 which snugly receive the heads 14 of the posts. According to the above arrangement the posts are put in place when the bottom of the box is being assembled, the posts being first pushed up through the openings 16 until the heads thereof seat against the underside of the board 7, then the board 8 is put in place, the openings 17 receiving the heads of the posts and finally the bottom board 9 is applied. When the various boards forming the bottom are firmly nailed to the ends of the case it will be obvious that the posts are very permanently attached to the bottom of the box and without being required to be separately nailed or otherwise secured.

In order to strengthen the bottom comparatively short nails 18 can be driven into the same and these nails prevent the posts from spreading the bottom boards apart, should the said posts be subject to a blow, as might occur with rough usage. It will be distinctly understood, however, that these nails 18 do not enter the posts, but simply fasten the three boards, forming the bottom, together. Where the bottom is formed to receive posts having tapering heads like those 15 the openings 16 and 17 in the boards 7 and 8 will be tapered to receive

the head in the manner shown in Fig 4. These latter posts and the bottom boards are then assembled in the manner as before described and when the bottom is finally secured in place the posts are firmly anchored. It is desirable that each bottom piece of the box be a single board as in this way the structure is materially strengthened as there is no possibility of cracks or joints which would weaken the structure.

The bottles, which are indicated by the dotted circles 19, are placed in the box in the manner as shown in Fig. 2 and here it will be observed that the inner bottles are spaced by the posts and that the outer bottles are held in place between the sides and ends of the box and the outer posts.

A case of this kind, holding twenty four bottles as shown, is considerably smaller than the cases at present used and this is an important feature in shipping and for storage purposes.

I might point out that a single board could be substituted for those 7 and 8 and in such a case the holes 16 will be bored and those 17 counter sunk, or in the modification shown in Fig. 4 the tapering hole could be made in the single board. This arrangement, of course, would probably be more costly, but such construction is considered as covered by the accompanying claims.

What I claim as my invention is:

1. A bottle case having a multi-board bottom and a plurality of similar bottle spacing posts extending upwardly from the bottom, each post having an enlarged head anchored in the bottom of the box between the inner and under board of the bottom.

2. A bottle case having the bottom thereof formed from upper, lower and intermediate boards suitably nailed together and similar bottle spacing posts carried by the bottom, each post passing through the inner board and having an enlarged head received within a suitable opening provided in the intermediate board, the said heads being retained in place by the under board.

3. A bottle case having the bottom thereof formed from an upper, a lower, and an intermediate board, the said upper board being provided with a plurality of suitably spaced openings and the said intermediate board being provided with a plurality of openings registering with the former openings and of larger diameter, and bottle spacing posts extending snugly through the openings in the upper board and having enlarged heads fitting the openings in the intermediate board, the said heads being held in place by the lower board.

Signed at Winnipeg, this 23rd day of March, 1923.

EDWARD WILLIAM HAMANN.

In the presence of—

GERALD S. ROXBURGH,

M. B. KELLEHER.