

J. MATTHEWS.
BOXES FOR BOTTLES.

No. 178,175.

Patented May 30, 1876.

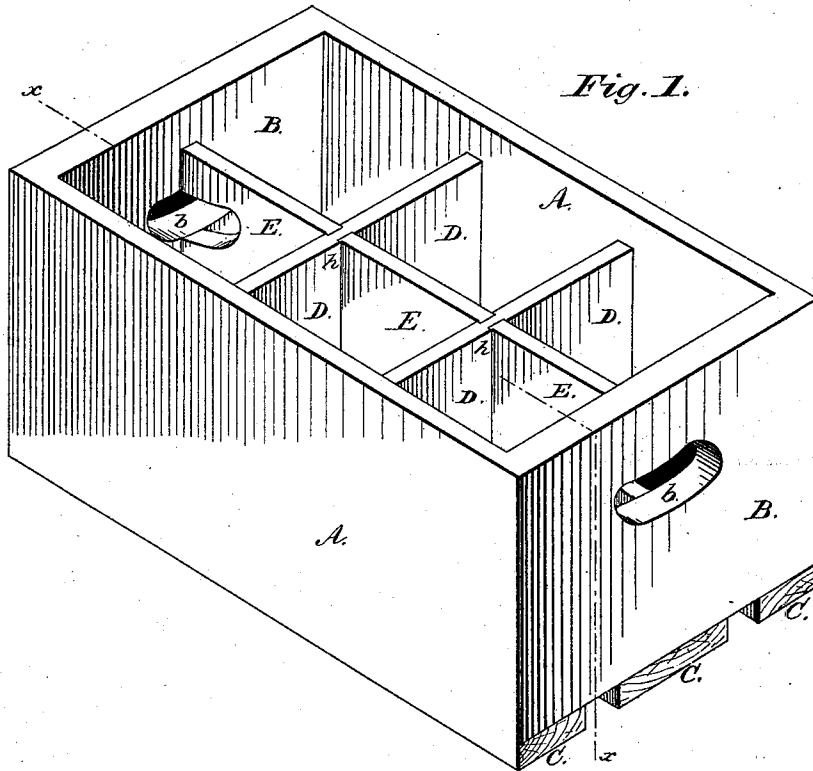


Fig. 3.

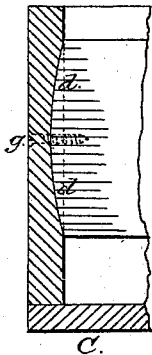


Fig. 2.

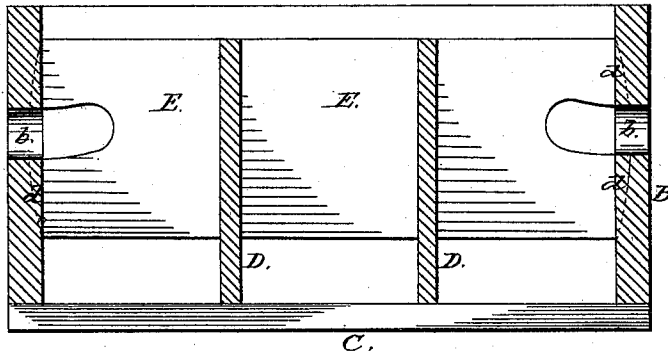
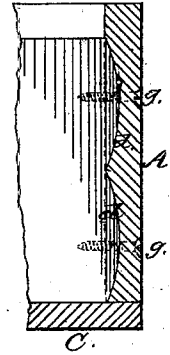


Fig. 4.



Witnesses:

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IMPROVEMENT IN BOXES FOR BOTTLES.

Specification forming part of Letters Patent No. 178,175, dated May 30, 1876; application filed December 8, 1875.

To all whom it may concern:

Be it known that I, JOHN MATTHEWS, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Boxes for Holding and Transporting Bottles; and do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 is a perspective view of a box for holding and transporting bottles, made according to my invention; Fig. 2, a vertical longitudinal section; and Figs. 3 and 4, detail sectional views.

In general form and arrangement the box is substantially the same as the boxes now in use.

The invention relates to certain changes in the form of the parts, so that they may be more readily formed by machinery, and so that when fastened together the box is stronger than when united in the ordinary way. The new features refer to the manner in which the partitions are inserted in the sides and ends of the box. The sides and ends have circular grooves formed in them, and the ends of the partitions are cut to the same curvature, so as to fit in and fill the grooves in the sides and ends, thus dispensing with the ordinary mortises. Both the grooves and the curves on the ends of the partitions may be cut by machinery without the use of mortising-tools.

Another improvement consists in cutting away the partition opposite the hand hole or handle of the box. In such boxes, as now constructed, the partitions are either put low enough to leave the handle-hole above them, or the partitions are beveled off to enable the fingers to be put through the side of the box to grasp it on the inside.

This improvement allows the partitions to come up to or near to the top of the box, where most required in sustaining bottles when placed in the box.

The following description will enable others to construct and use this invention.

In the drawings, A A are the sides; B B, the ends; *b*, the hand-holes; C C C, the bottom slats; D D, the cross-partitions; and E

E, the longitudinal partitions. The cross-partitions are shown running down to the bottom slats, while the longitudinal partitions do not.

I have shown a box with six partitions; but the same may be varied to form any desired number of divisions. At the parts where the partitions join the ends and sides is a groove, or two or more grooves, of a circular form, as shown in Figs. 3 and 4. The grooves are formed by a revolving cutter or chisel on the inside of the end and side pieces, and the ends of the partitions are cut to the same curve, so that the curved ends of the partitions just fill the curved grooves in the sides and ends, as plainly shown at *d d*. The same mode of joining together may be applied to the partitions where they form crosses, as at *h h*.

When put together all the parts may be firmly held by screws, as shown at *g g*.

For making a box of any given size and number of openings all the pieces are made exactly alike, and may be packed together indiscriminately and shipped. By taking out the screws the box comes apart readily, and may be again put together; and as the corresponding parts of every particular size of the box are the same, the several pieces will always fit any box when put in the proper place. This enables boxes of this kind to be readily packed and shipped in small bulk, when they are not used for holding bottles.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A box for transporting bottles, consisting of compartments for each bottle, the sides and divisions being formed by means of curved grooves, and curved pieces to fit the grooves, substantially as set forth.

2. The handle or hand-hole *b*, formed by cutting through the ends, and cutting a recess in the partition next the ends, and leaving a part of the partition above the recess, so as to brace and strengthen the box at this part, substantially as set forth and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN MATTHEWS.

Witnesses:

W. D. SLOAN,
B. F. HALL.