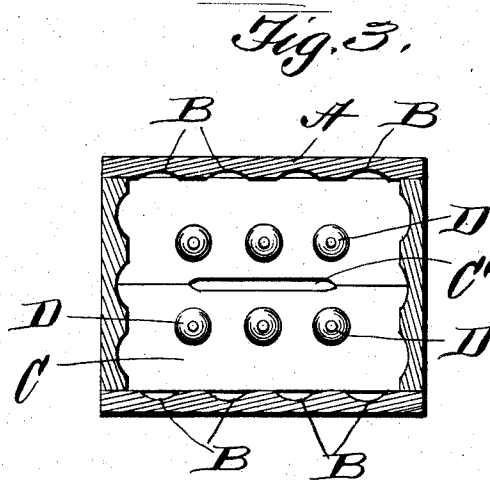
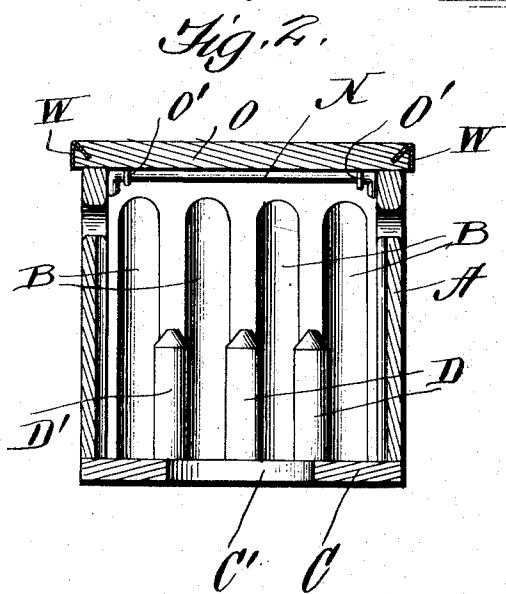
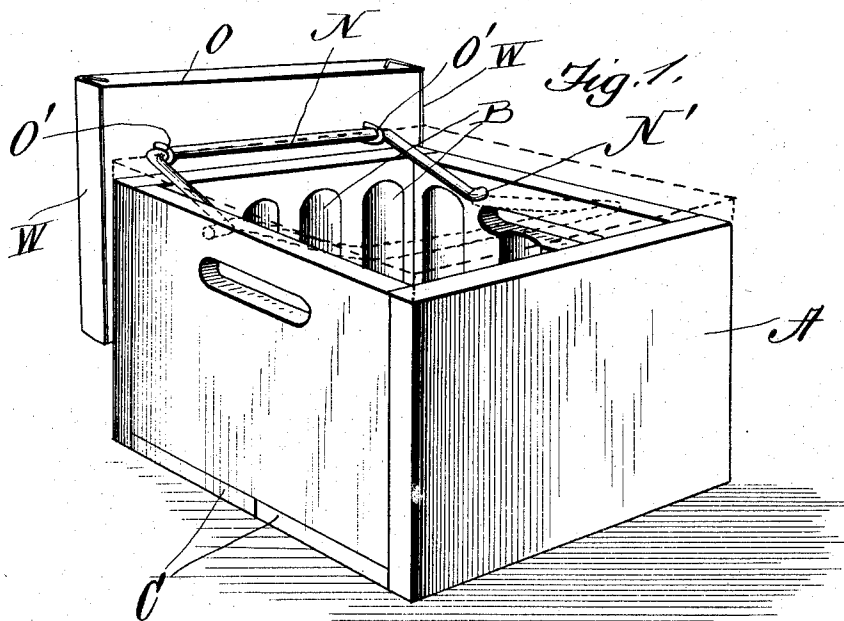


No. 854,244.

PATENTED MAY 21, 1907.

C. W. SMITH.
SHIPPING CRATE.
APPLICATION FILED JULY 24, 1906.



Witnesses
R. A. Brown.
A. D. Hough

Inventor
Chas. W. Smith,
By Franklin D. Hough
Attorney

UNITED STATES PATENT OFFICE.

CHARLES W. SMITH, OF SANDUSKY, OHIO.

SHIPPING-CRATE.

No. 854,244.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed July 24, 1906. Serial No. 327,566.

To all whom it may concern:

Be it known that I, CHARLES W. SMITH, a citizen of the United States, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Shipping-Crates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in shipping crates, and the object of the invention is to produce a simple and efficient device of this nature adapted especially for holding bottles, whereby the same may be conveniently transported without breakage, and consists essentially in the provision of a box or crate having pins projecting from the bottoms thereof, the inner surfaces of the side walls of the box or crate being provided with vertical grooves between which and the pins, the bottles are adapted to be held, and in the provision of a cover or closure which is mounted upon a swinging bail and adapted, when opened, to be positioned vertically against the outer face of the box.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective view of my improved shipping crate or box, showing the closure opened in solid lines and closed in dotted lines. Fig. 2 is a vertical sectional view longitudinally through the crate, and Fig. 3 is a transverse sectional view on a plane parallel with the bottom of the crate.

Reference now being had to the details of the drawings by letter, A designates a box or crate, the inner surfaces of the side walls of which are provided with elongated grooves B, vertically disposed, which grooves terminate at their upper ends a slight distance below the upper edge of the box. The bottom C of the box or crate has a central slot C' therein, and each of said grooves B upon two opposite sides extend through the bottom, forming means for the circulation of air.

Cylindrical pins D, spaced apart, are positioned intermediate the oppositely disposed grooves in the inner surface of the sides of the box, in such a manner that bottles will be held in the box with their walls in engage-

ment with the grooves and the pins D, except those bottles placed in the center of the box, in which case the bottles will be held between four of the pins D.

N designates a bail, the ends of which are journaled in apertures N' formed in the ends of the box or crate at one side of the center thereof, and a closure O is provided with staples O' through which said bail passes, thereby forming a hinged connection between the closure and the crate or box. It will be noted that said staples O' are mounted eccentrically upon the closure so that when the latter is opened in the manner shown in solid lines in Fig. 1 of the drawings, it will rest vertically against one of the outer faces of the box or crate, while the bail rests upon the top of the latter. In order to protect the ends of the closure, metallic strips W are fastened thereto, and the marginal edges of said closure preferably project a slight distance above the upper edge of the box in order to further protect the latter.

From the foregoing, it will be noted that by the provision of the box or crate shown and described, a simple and efficient device is afforded whereby bottles may be prevented from shaking about and securely held from contact with one another, while the provision of the closure as shown, affords means for opening the same without taking the necessary room which would be required if the edge of the closure were hinged to the box.

What I claim is:—

A shipping box or crate having vertical grooves formed in the inner faces of the side and end walls thereof, a series of pins rising in rows from the bottom of the crate between said grooves and spaced apart, a bail-shaped member having angled ends which are mounted in bearings formed in the inner surface of the walls of the box, a flangeless closure, eyes projecting therefrom at one side of the center of the closure and through which the swinging part of the bail passes, the bail being engaged with the sides of the box and closure, to hold the latter properly positioned upon the box, or to permit the closure when open to rest vertically against the outer face of the rear wall of the box.

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

CHARLES W. SMITH.

Witnesses:

JAMES W. FERGUSON,
GEORGE W. FERGUSON.