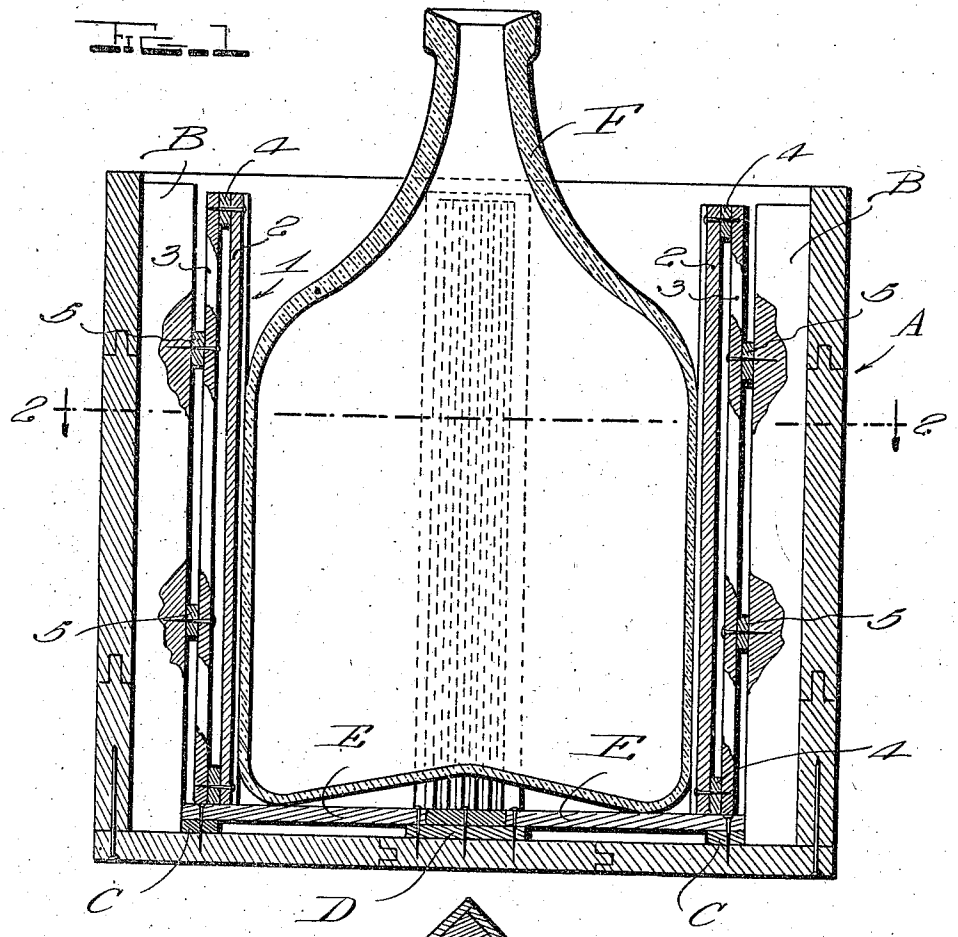
July 24, 1923.

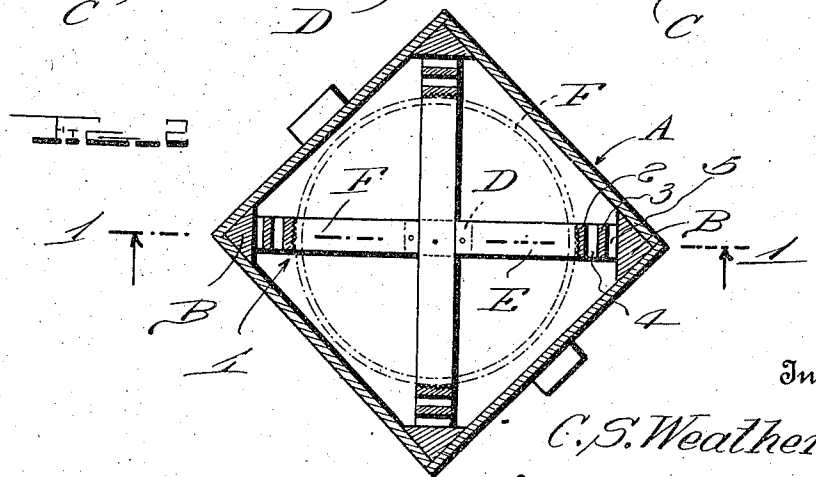
1,462,672

C. S. WEATHERBY

SHIPPING BOX FOR CARBOYS

Original Filed Dec. 2, 1920





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UNITED STATES PATENT OFFICE.

CALVIN S. WEATHERBY, OF SOUTH WESTVILLE, NEW JERSEY.

SHIPPING BOX FOR CARBOYS.

Application filed December 2, 1920, Serial No. 427,879. Renewed May 3, 1923.

To all whom it may concern:

Be it known that I, CALVIN S. WEATHERBY, a citizen of the United States, residing at South Westville, in the county of Gloucester and State of New Jersey, have invented certain new and useful Improvements in Shipping Boxes for Carboys; and I do 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.

This invention relates to an improved shipping box or crate for carboys.

The principal object of the invention is to generally improve upon devices of this class by the provision of one of extreme simplicity and durability which embodies novel bottle engaging cushioning members which are such in construction that they will effectively engage the carboy and retain it against possible displacement without the possibility of breaking it.

Another object of the invention is to provide a device of the class above mentioned wherein the carboy or bottle engaging members are of such construction that they may be employed to replace the corresponding parts used in crates now on the market.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a central vertical sectional view through a shipping box constructed in accordance with this invention, showing the carboy in position therein, the section being taken on the plane of the line 1—1 of Figure 2.

Figure 2 is a horizontal sectional view taken on the line 2—2 of Figure 1 looking in the direction of the arrows.

Referring to the drawings, wherein the preferred construction and arrangement of the improved box is shown, it will be seen that the letter A designates a conventional type of crate or box of square form which is made up of a plurality of readily disconnectible sections. Arranged in the four corners of the box and extending vertically to a point adjacent the top of the latter are triangular corner pieces B and disposed at the bottom of each of these corners are blocks C which in conjunction with the centrally disposed block R serve to space and support a plurality of horizontal supporting strips E which extend to the parts C and are nailed or otherwise secured to the block D. As far as the description has gone, it sets forth a construction and arrangement substantially shown and described in Patent 1,000,449 granted to K. F. Stahl on August 15th, 1911.

My invention resides in the construction and arrangement of the bottle engaging members 1, which, as here shown are each made of a pair of spaced yieldable strips 2 and 3 respectively, the inner strips 2 having their effective faces corrugated to insure a tight grip on the carboy F. Strips 2 and 3 are held in spaced relation with respect to each other by means of spacing blocks 4 arranged between them and secured thereto at their opposite ends. Additional spacing blocks 5 serve to connect these members 1 to the corner pieces B, these blocks being disposed at points adjacent the center of the walls of the box and suitable fastenings being driven through the strips 3, blocks 5 and into the corner pieces B. With this construction and arrangement, it will be seen that the strips 2 and 3 are rendered independently movable with respect to each other and the members, as a unit, are free to move toward and from the carboy at their opposite ends and at points intermediate their ends.

From the foregoing description it will be seen that the novel bottle engaging members which I employ are substantial improvements over corresponding parts employed in prior art devices and in crates now on the market. They are free to yield, as a unit, at their opposite ends, that is, the opposite ends thereof are freely movable toward and from the carboy and they are also flexible at their centers. Furthermore, the strips of each member are independently yieldable and thus, it will be seen that the carboy will be effectively gripped and held against displacement, with sufficient and just enough cushioning effect to prevent breakage of the latter. With my construction and arrangement, the necessity of employing special wedges and similar devices for rendering the members 1 effective, is overcome. Thus, much time is saved by the shippers in placing the carboys in position in the box. The carboys can also be very easily and readily removed with my construction. Should

there be any irregularities in the outer surface of the carboy it will be seen that due to the great elasticity of my bottle engaging members, they will conform to such irregularities and an effective grip on the bottle or carboy will be insured regardless of such irregularities.

A careful consideration of the foregoing description taken in connection with the accompanying drawings is thought to be sufficient to enable persons skilled in the art to which this invention appertains to obtain a clear understanding of the same. Therefore, a more lengthy description is deemed unnecessary.

Since probably the best results may be obtained with the construction and arrangement shown and described, this construction and arrangement is taken as the preferred embodiment of my invention. However, I wish it to be understood that various minor changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

I claim:

1. A shipping crate for carboys provided with a plurality of corner pieces, and a plurality of vertically disposed bottle-engaging cushioning members secured to said corner pieces intermediate their centers and their opposite ends, each of said members being composed of spaced independently yieldable strips, whereby they will be permitted to flex freely toward and from the carboy at their ends and at their centers and thereby permitted to conform to the contour of the carboy.

2. A shipping box for carboys provided with a plurality of vertically disposed bottle engaging members arranged in the four corners thereof, each member consisting of a pair of strips of yieldable material having spaced blocks secured between them at their opposite ends rendering each strip independently yieldable, the inner strip of each member being provided with longitudinally extending corrugations, and the outer strips being secured to the box at points intermediate their centers and opposite ends, and being spaced from the box.

In testimony whereof I have hereunto set my hand.

CALVIN S. WEATHERBY.