

No. 724,796.

PATENTED APR. 7, 1903.

W. E. BROWN.
BOTTLE CRATE.

APPLICATION FILED JUNE 20, 1902.

NO MODEL.

Fig. 1.

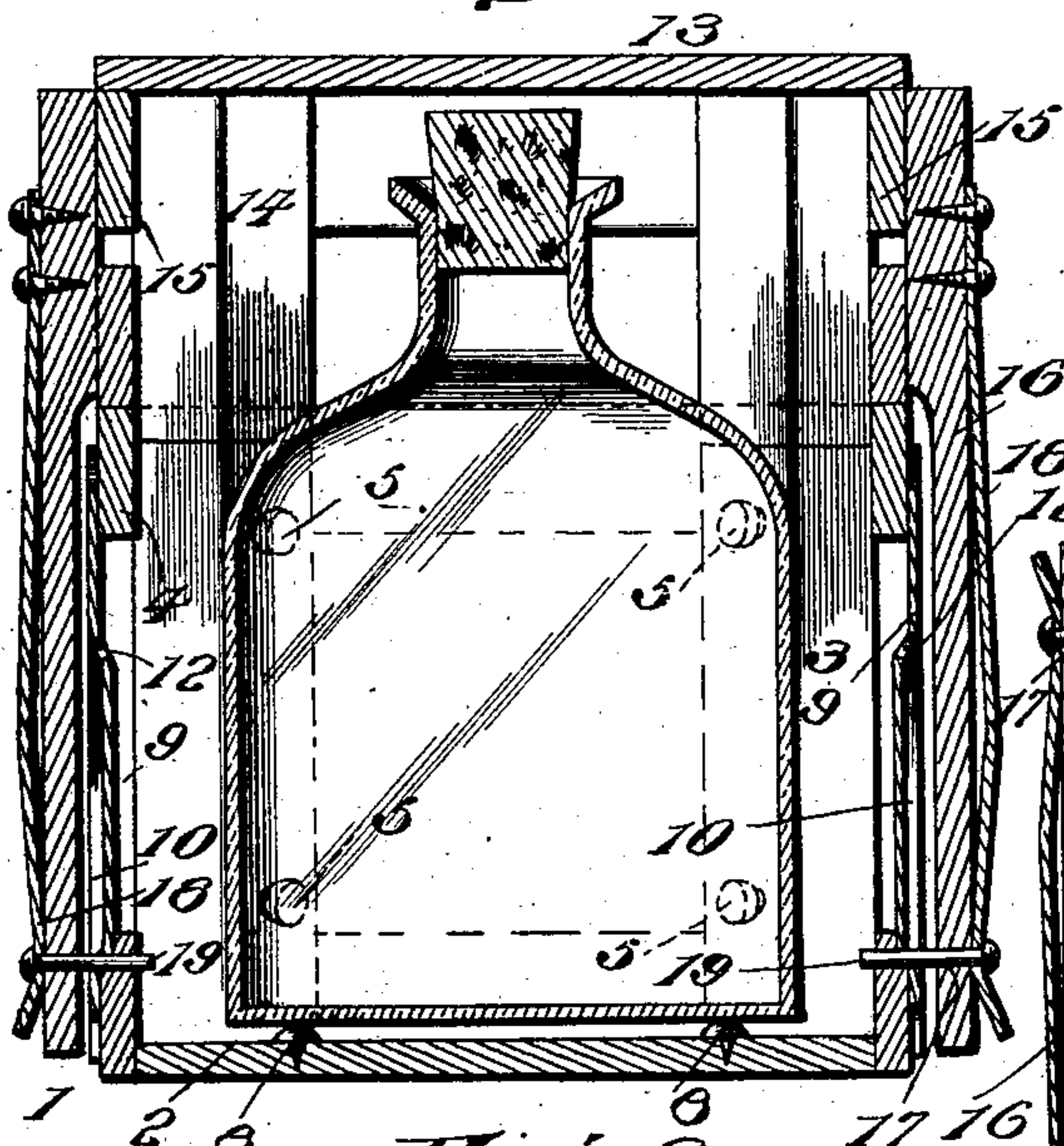


Fig. 2.

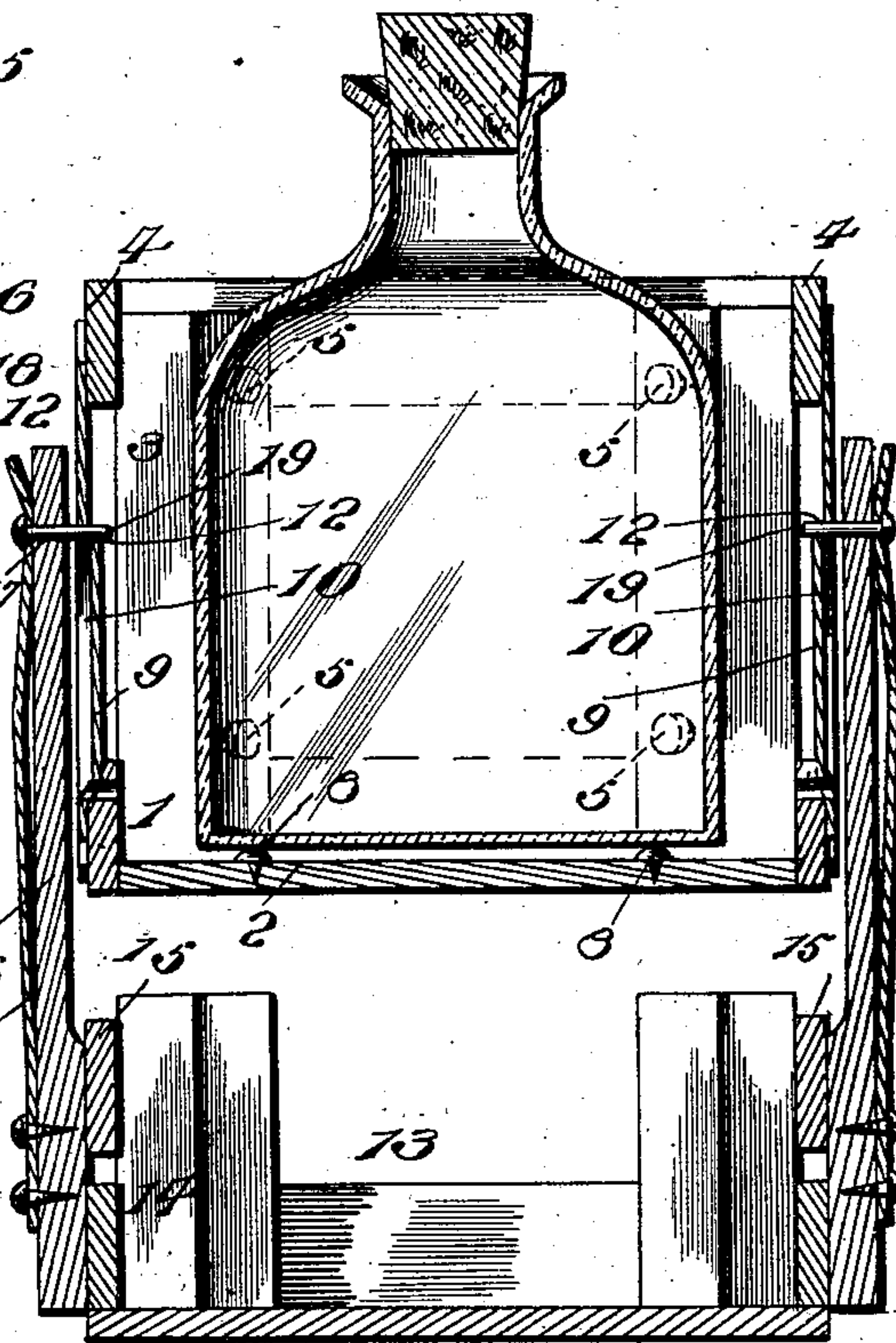


Fig. 3.

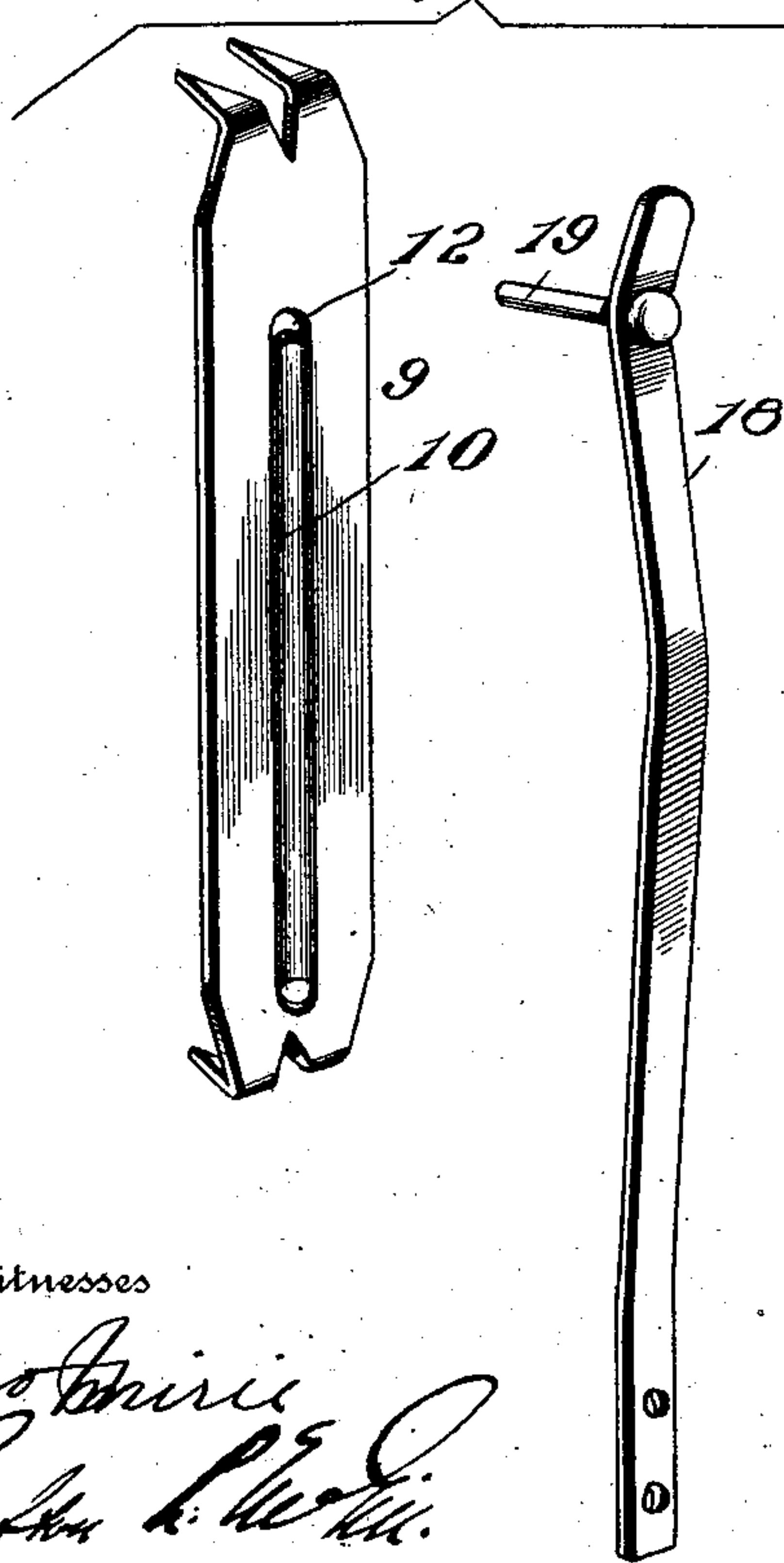
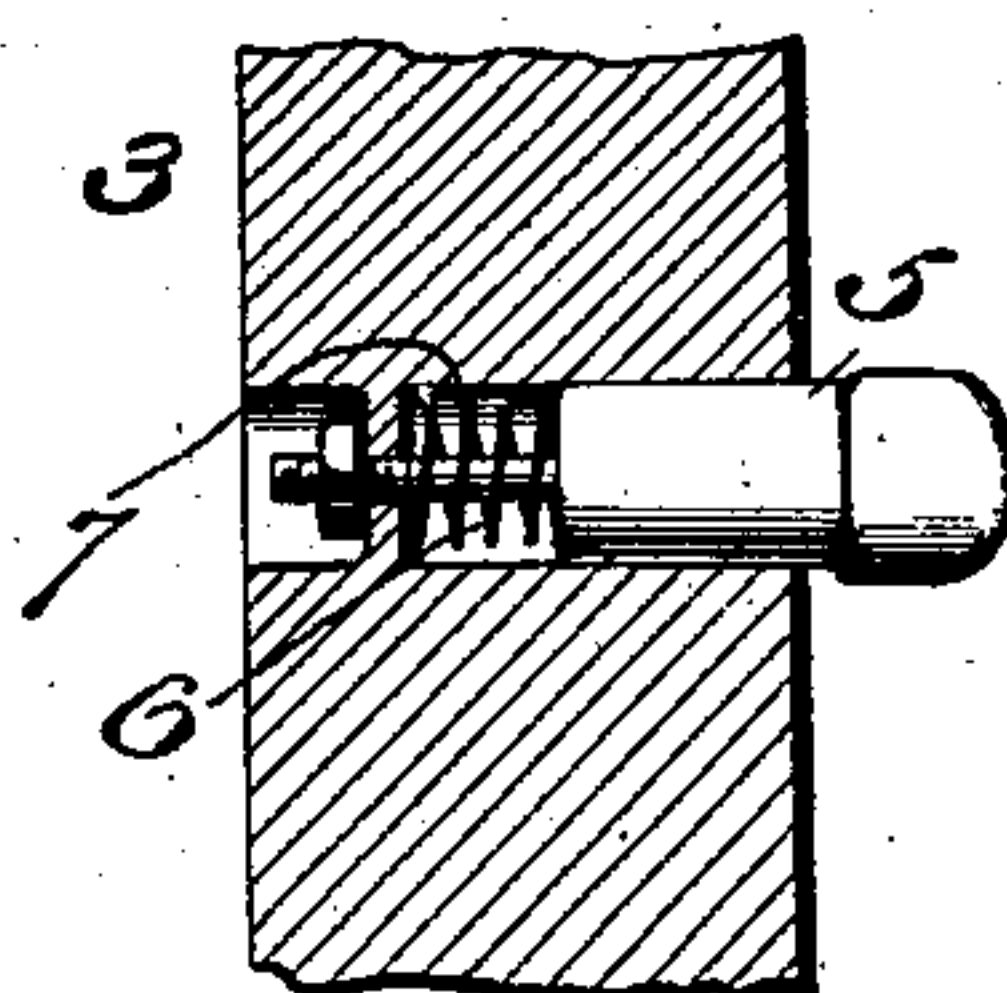


Fig. 4.



Inventor

W. E. Brown.

Witnesses

John H. Brown
Charles L. H. H.

By

John H. Brown

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM E. BROWN, OF LOS ANGELES, CALIFORNIA, ASSIGNOR TO BROWN-WINSTANLEY MANUFACTURING COMPANY, OF LOS ANGELES, CALIFORNIA, A CORPORATION OF CALIFORNIA.

BOTTLE-CRATE.

SPECIFICATION forming part of Letters Patent No. 724,796, dated April 7, 1903.

Application filed June 20, 1902. Serial No. 112,524. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. BROWN, of Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Bottle-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.

This invention relates to that class of crates comprising two sections, one of which is designed to contain a bottle, demijohn, or other receptacle and the other adapted to serve as a cover therefor during shipment and storage and as a pedestal on which such body portion may be swung to facilitate emptying the receptacle.

The object of my invention is to provide improved means for detachably locking the hood to the crate both when used as a hood and also when employed as a pedestal, and a further object is to provide improved yielding contacts for steadying the bottle or demijohn and avoid damage thereto by any jar or concussion.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal sectional view showing the hood locked over the crate. Fig. 2 is a similar view with the hood used as a pedestal. Fig. 3 shows the locking members. Fig. 4 is a sectional view of one of the posts.

Referring to the drawings, 1 designates a crate, preferably of rectangular formation and consisting of a bottom 2, corner-posts 3, and side bars 4. Within the crate is designed to be placed a bottle or demijohn, and to insure against breakage by jarring and at the same time allow of ready insertion and removal I provide each of the posts 3 with upper and lower spring-pressed buttons 5, having outer coverings of rubber or other flexible material. As shown, these buttons, whose stems are surrounded by springs 6, are designed to fit within recesses 7, cut in the posts. On the bottom are pads or cushions 8, whereon the bottle is designed to rest.

The posts 3 terminate at their upper ends a short distance below the plane of the upper side bars. To opposite sides of the crate are secured vertical plates 9, formed each with a longitudinal groove or runway 10, terminating at its upper and lower ends in holes 12.

13 designates the convertible hood-section, which is shown in Fig. 1 as a covering for the crate and in Fig. 2 as a pedestal therefor. The corner-posts 14 of this hood extend beyond the side bars 15, so as to fit within the corners of the crate, against the upper ends of the posts thereof, and thus hold the hood as against accidental displacement. At opposite sides the hood is provided with arms 16, formed with holes 17 near their outer free ends.

18 designates spring locking-plates secured each at one end to the outer sides of arms 16 and having at their free ends a lug or pin 19, which extends through holes 17 and into engagement with grooves or runways 10, and when the hood is moved to the upper or lower limit of travel such pins extend into the holes at the respective ends of such runways. When the pins are in the lower holes, the hood is locked to the crate and when in the upper holes said pins form pivot-bearings upon which the crate is free to swing. To disengage the pins from either set of holes, it is only necessary to move outwardly the free ends of the spring-arms, which ends are curved for that purpose.

The hood being in the position shown in Fig. 1, (that assumed during transportation and storage,) is securely held as against lateral displacement by the ends of the corner-posts of the hood extending into the corners of the crate, while pins 19 are projected into the holes 12 at the bottom of runways 10. When it is desired to convert the hood into a pedestal, the operator takes hold of the free ends of spring-arms 18, effecting the withdrawal of the pins 19 from the lower holes 12 and at the same time giving a slight upward movement to the hood, which may then be grasped at any convenient point and pulled upwardly, causing the pins to travel in the grooves or runways until they reach the upper ends thereof, when they will snap into

the upper holes 12. The hood may then be moved around a half-revolution on the pivots formed by the pins until it is subjacent frame 1, when the latter will be held in swinging relation thereto to facilitate emptying the contents of the bottle.

I claim as my invention—

1. The combination with the crate, of the reversible hood therefor, opposite plates secured to the crate having vertical grooves or runways, and locking means carried by the hood having spring-pressed pins movable in said runways and designed to be held at the ends thereof, substantially as set forth.

2. The combination with the crate, of the reversible hood therefor, opposite plates secured to the crate having vertical grooves or runways, and holes at the upper and lower ends thereof, and locking means carried by the hood having spring-pressed pins movable in said runways and designed to enter said holes when in line therewith, substantially as set forth.

3. The combination with the crate having plates at opposite sides thereof formed with vertical grooves or runways and holes at the

ends thereof, of a reversible or convertible hood having side arms in the planes of said plates, spring-plates carried by said arms and having at their free ends pins designed to work in said grooves and enter said holes, substantially as set forth.

4. The combination with the crate having plates at opposite sides thereof formed with vertical grooves or runways and holes at the ends thereof, of a reversible or convertible hood having side arms in the planes of said plates, holes being formed in said arms near their ends, spring-plates secured each at one end to said arms, and pins carried by the free ends of said spring-plates, extended through said apertures and designed to travel in said grooves and enter said holes, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM E. BROWN.

Witnesses:

ZENA B. WALES,

C. L. BRIMHALL.