

(No Model.)

2 Sheets—Sheet 1.

P. C. LEIDICH.

BOX FOR PACKING AND SHIPPING BOTTLES.

No. 475,456.

Patented May 24, 1892.

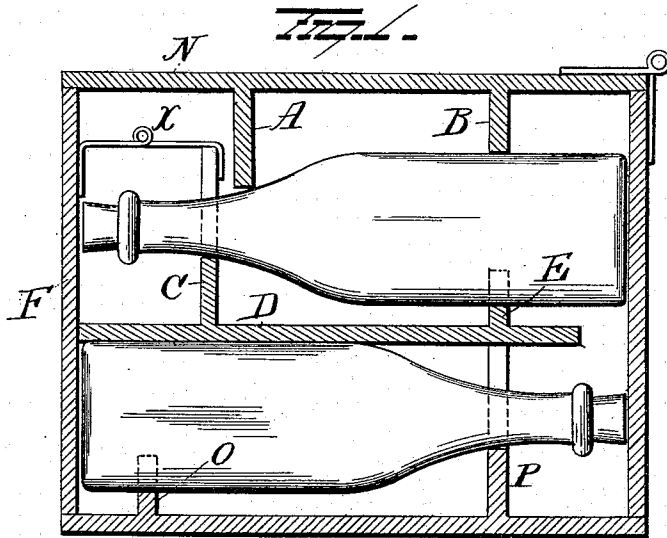
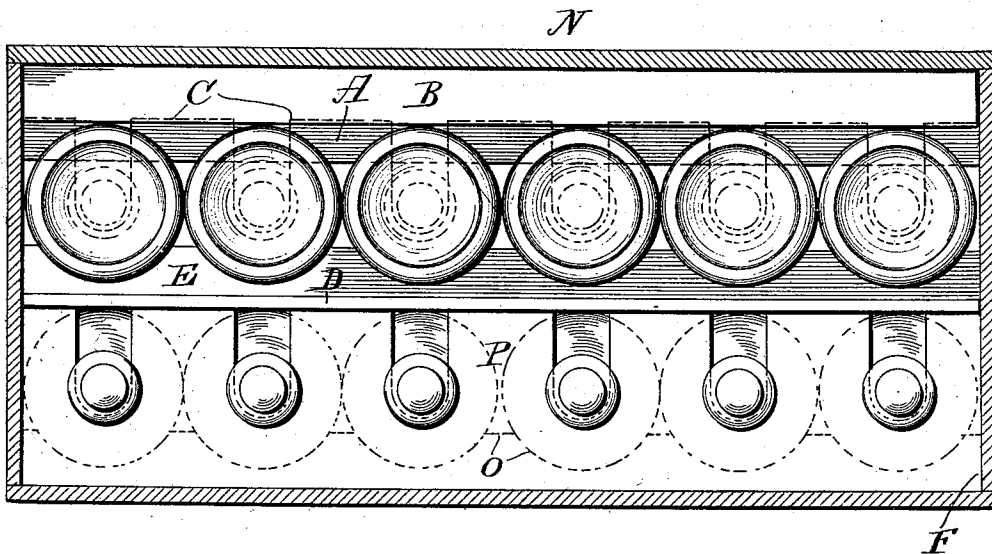


Fig. 2.



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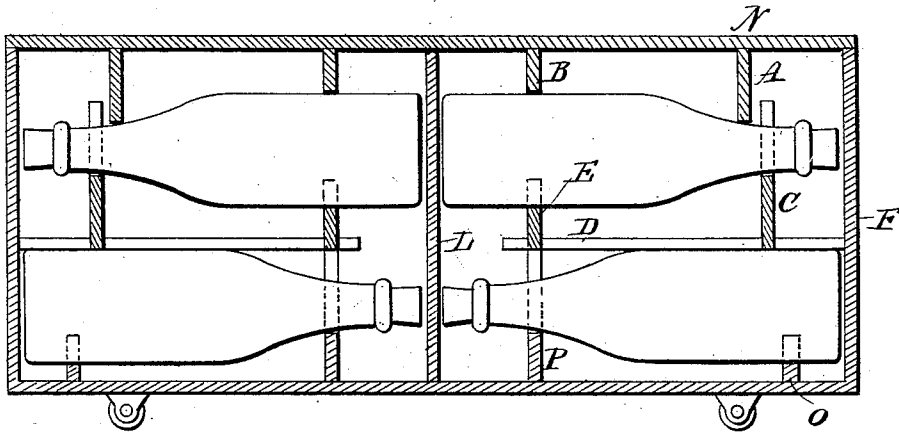


FIG. 3.

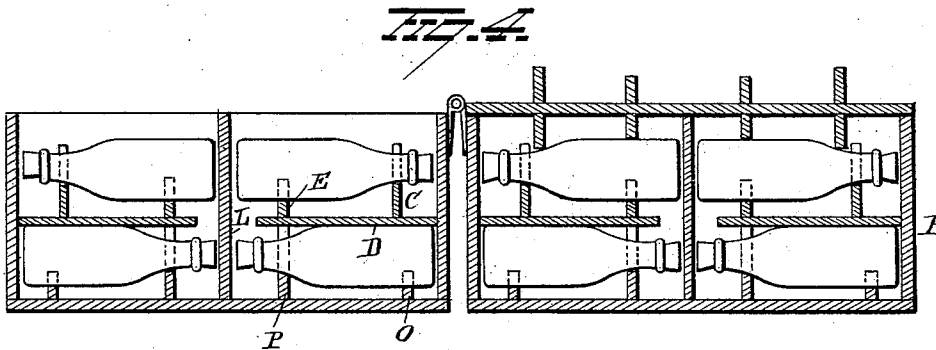


FIG. 4.

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UNITED STATES PATENT OFFICE.

PETER C. LEIDICH, OF ASHLAND, PENNSYLVANIA.

BOX FOR PACKING AND SHIPPING BOTTLES.

SPECIFICATION forming part of Letters Patent No. 475,456, dated May 24, 1892.

Application filed July 27, 1891. Serial No. 400,798. (No model.)

To all whom it may concern:

Be it known that I, PETER CHRISTIAN LEIDICH, of Ashland, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Boxes for Packing and Shipping Bottles; 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.

My invention relates to an improvement in boxes for packing and shipping bottles, the object being to provide simple and compact devices for receiving and holding a series of bottles against movement in any direction, thereby lessening to a considerable extent the danger of breakage, and also enabling me to pack more bottles within a given space than can be accomplished with any of the devices now in use for this purpose.

With these ends in view my invention consists in the parts and combinations of parts as will be more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in transverse section of a box embodying my invention. Fig. 2 is a view in longitudinal section of same, and Figs. 3 and 4 are modifications.

F represents a box of any length desired, and preferably of a width slightly greater than the length of a bottle, or, in other words, of a width equal to the length of the bottle and the projecting end of the cork. The bottom of the box is provided near one side with a strip O, provided with a series of depressions or seats all shaped to conform to the curvature of the body of the bottles and separated just sufficient to permit the bottles to be easily seated therein, as shown in Fig. 2.

Secured to the bottom of the box near the opposite side is a similar strip P, provided with a series of deeper and narrower slots or seats, each adapted to receive the neck of a bottle. The seats or slots in the strip P register or are in alignment with the seats in strip O, and hence when the first tier or row of bottles is placed in position the strip and sides of the box absolutely prevent any endwise movement of the bottles, while the strips prevent any lateral movement, and as the bottles are

well down in the bottom of the box but very little space is lost.

D is a frame, which, if desired, may be placed loosely in the box on the bottles or on cleats secured to the ends or sides of the box, but which is preferably secured to one side of the box by the hinge X. (Shown in Fig. 1.) This frame may be simply a flat strip of wood, or it may be in the form of a skeleton-frame. In either event, however, it is adapted to rest in close contact with the top of the first or lower row of bottles and with the top of the lower strip P. This frame D is provided at or approximately at a point over the strip P with a strip E, which corresponds with the strip O for the lower tier of bottles, and with the strip C, which latter corresponds with the strip P of the lower tier. These strips E and C are grooved or slotted similar to strips O and P, and hence when the second tier of bottles is placed in position there is but little space between it and the lower tier. This arrangement could be continued for an indefinite height, if so disposed, and the frames D can be set in loose; but I prefer to secure them to the box by hinges X, so that after the upper tier of bottles has been removed the frame or frames D can be swung out, and thus expose the lower tier. The hinge X or hinges X are made as shown, and are attached each by one leaf to the inner side of the box and by the other leaf to the strip C at points between slots for the necks of the bottles. By this arrangement the frame can be swung over the side and not interfere in the least with the free packing or removal of the lower tier of bottles.

The cover N, which is preferably hinged at one side, is provided with a strip B for engaging the bodies of the top row of bottles and with a strip A for engaging the necks of the bottles, thus preventing the slightest movement of the bottles composing the upper tier. It is not, however, necessary that the top should be hinged, as it can be fastened with screws or nails and answer all purposes. Again, instead of having the box of a width equal to the length of a bottle it can be made to receive two or three bottles by simply providing same with a vertical longitudinal partition L, as shown in Fig. 3. Again, if desired I can construct the boxes as shown in Fig. 4.

In this device the top of the box and the body are each constructed to hold two tiers of bottles and are secured together by a hinge. In all of these forms the portion or frame similar to frame D of Fig. 1 would be used between the bottles.

It is evident that numerous slight changes might be resorted to in the constructive details of my invention, and hence I do not wish to limit myself to the exact construction set forth; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a box having seats to receive the bodies and necks of a series of bottles, a movable frame, also having seats to receive the bodies and necks of a series of bottles, and a cover having depending strips

to engage the bodies and necks of the upper tier of bottles, substantially as set forth.

2. The combination of a box having seats to receive the bodies of the bottles and grooved strips to receive the necks of said bottles, a frame adapted to rest loosely on the bottles and on the grooved strips and provided with seats, and a grooved strip for another series of bottles, and a cover having depending strips to engage the bodies and necks of the upper series of bottles, substantially as set forth.

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

P. C. LEIDICH.

Witnesses:

HENRY LIMBERT,
J. WILLIAM RITZ.