

No. 747,167.

PATENTED DEC. 15, 1903.

J. N. HAHN.
MEANS FOR PACKING FRAGILE VESSELS.
APPLICATION FILED JAN. 9, 1903.

NO MODEL.

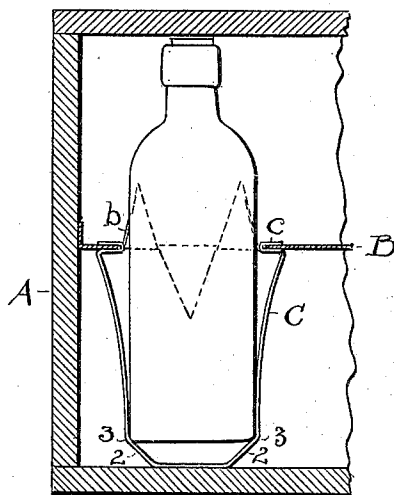


FIG. 1.

FIG. 3.

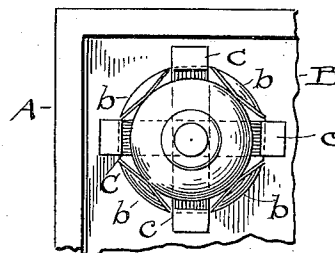


FIG. 2.

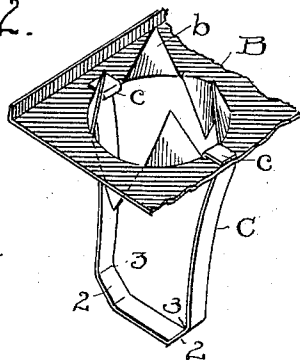


FIG. 4.

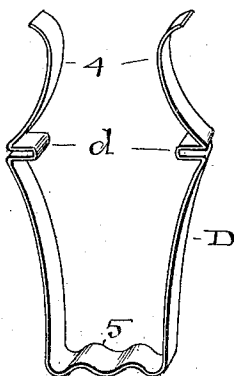
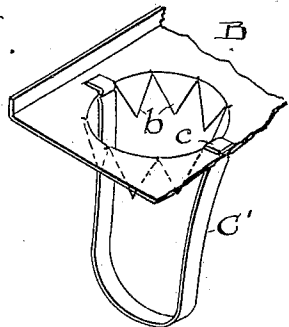


FIG. 5.



ATTEST
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UNITED STATES PATENT OFFICE.

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MEANS FOR PACKING FRAGILE VESSELS.

SPECIFICATION forming part of Letters Patent No. 747,167, dated December 15, 1903.

Application filed January 9, 1903. Serial No. 138,417. (No model.)

To all whom it may concern:

Be it known that I, JOHN N. HAHN, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Means for Packing Fragile Vessels; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to means for packing fragile vessels of different kinds; and the invention consists in the construction and combination of parts substantially as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan elevation of one end of a packing case or crate, showing a single bottle and my improved means for supporting the bottle therein. Fig. 2 is a perspective view of one corner of my improved holder, plate, or body part and a stirrup connected therewith for supporting a bottle or other vessel thereon. Fig. 3 is a plan view of a modification of the holder, in that it shows two stirrups instead of one and represents the same in one corner of the casing. Fig. 4 is a modification in the form of stirrup. Fig. 5 is a modification showing a plate with the spurs all bent down.

The idea of the invention thus shown is to provide improved means for supporting fragile articles, like glass bottles, jars, or cans, in packing cases or crates for shipping, and the invention comprises a crate or case A, a sheet, plate, or equivalent form of body part B of any suitable or sufficient material—such as sheet metal, wire mesh, or the like—forming a “body” part, so called, and having openings to receive the bottle, can, or jar, the stock or material removed to make such openings when sheet metal or other sheet material is used being split to form a series of spurs or projections *b*, which may be bent upward or downward or alternately up and down, as may be deemed best and adapted to form lateral spring-stays for the vessel engaged thereby; but these devices are not in themselves sufficient for safely carrying bottles or jars of the larger sizes and which require means for suitably confining them at their bottom

as well and for giving them a spring-support to prevent breakage in the handling of the case. To these ends I provide a spring stirrup or support C, one or more for each vessel and so constructed that they may be detachably engaged upon or with the plate or body A. One such stirrup is shown in Fig. 1 and two in Fig. 3, and in both these instances the ends C of the stirrup are bent outwardly at right angles and engaged over the edge of the openings for the bottle or jar between spurs or projections *b* when they are used as shown herein. In this instance a portion of the stock for producing said openings is removed for accommodating the stirrups. As shown in Figs. 1 and 2, the stirrup has inwardly-inclined portions 2 at its bottom, which form shoulders 3 for the bottle to rest upon, and the said portions 2 constitute a spring-support for the bottle, and with the spurs above to support the vessel against possible tilting in any direction a single comparatively wide stirrup is sufficient in most cases to carry a bottle or jar safely. However, if necessary, two stirrups can be used, as in Fig. 3.

A modification of the stirrup is seen in Fig. 4. Here a double side lap *d* is formed in each side of stirrup D, which is adapted to engage body B substantially as hooks *c* engage in Fig. 2, and there are fingers 4 above the lap *d* to engage about the top of the bottle or other vessel. The bottom of this stirrup is corrugated at 5 to give a spring-support to the vessel.

From the foregoing it will be seen that there is room for considerable variation in the details of the invention without departing from the spirit thereof, and this is especially true as to the so-called “stirrup” or “support” B.

Obviously if a set of stirrups like D were used the spurs *b* might not be needed, and especially would the spring-arms 4 serve as a good substitute for the upwardly-bent spurs *b*. In this case there would be spring projections proceeding from about the openings for the vessels, but they would not be integral with the body part B.

What I claim is—

1. In a shipping and packing device for bottles and the like, a body part having an opening to set the vessel in and projections about

the opening to engage the sides of the vessel,
and a stirrup separably engaged with the said
body part and adapted to form a spring-sup-
port for the vessel thereon, substantially as
5 described.

2. Means for shipping bottles and like break-
able articles, the same consisting of a body
having an opening provided with spring pro-
jections about its edge, in combination with

a detachable support for the vessel engaged
between said projections, substantially as de-
scribed.

Witness my hand to the foregoing specifi-
cation this 27th day of December, 1902.

JOHN N. HAHN.

Witnesses:

R. B. MOSER,
R. ZHORINK.