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H. A. PENROSE.

PACKING AND SHIPPING CASE.

APPLICATION FILED JUNE 3, 1904.

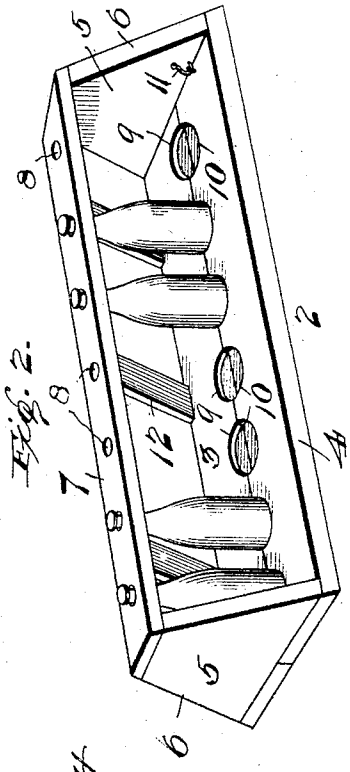


Fig. 2.

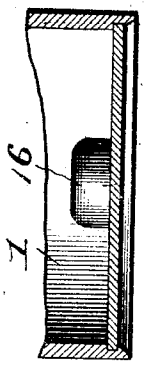


Fig. 4.

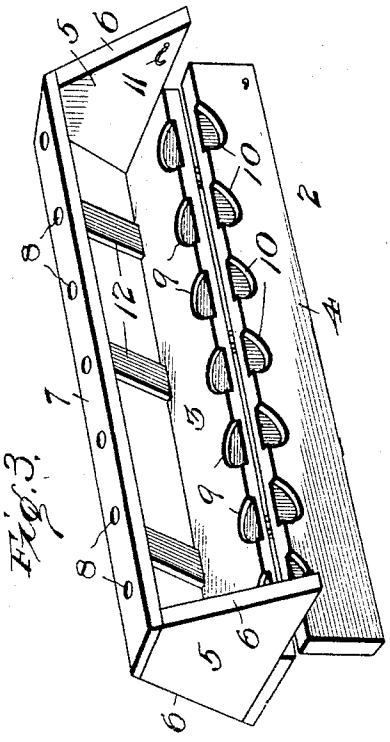


Fig. 3.

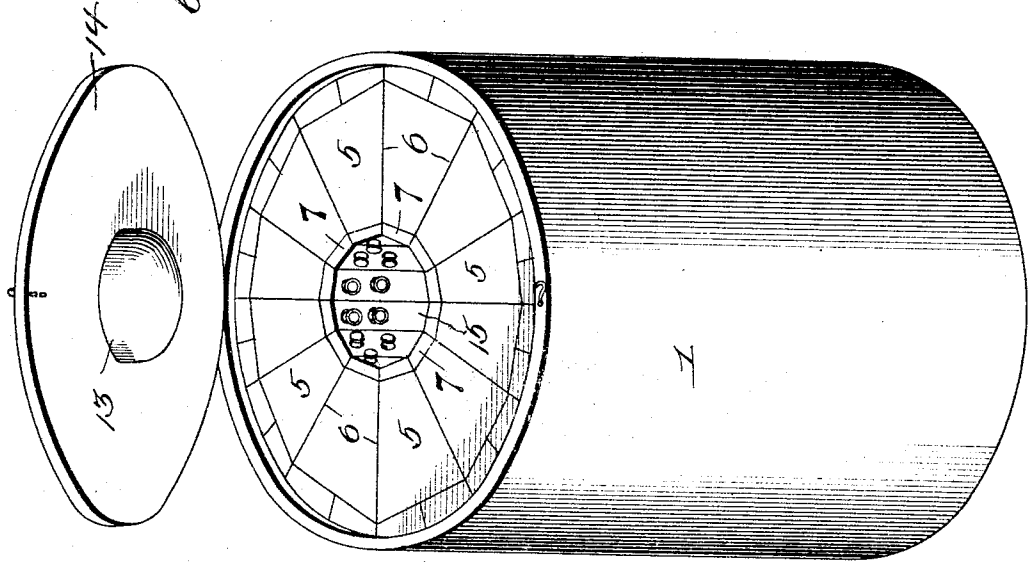


Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

HALLACK A. PENROSE, OF BALTIMORE, MARYLAND, ASSIGNOR TO CHAMPION SEAL COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

PACKING AND SHIPPING CASE.

SPECIFICATION forming part of Letters Patent No. 779,621, dated January 10, 1905.

Application filed June 3, 1904. Serial No. 211,001.

To all whom it may concern:

Be it known that I, HALLACK A. PENROSE, a citizen of the United States, residing in the city of Baltimore, State of Maryland, have invented new and useful Improvements in Packing and Shipping Cases, of which the following is a specification.

This invention relates to a packing and shipping case for storage and transportation of bottled liquids.

The object is to economize space and hold the bottles isolated from each other, thereby avoiding breakage, and to maintain the heads out of contact not only with each other, but with any part of the device, thereby preventing disturbance of the seals, this being particularly important when the bottles are closed by the well-known crown seal.

In general the device comprises a series of sector-like or converging bottle racks or holders having an outer member or base supporting the base ends or bottoms of the bottles and an inner narrower member supporting their neck ends, whereby the individual holders or racks may be packed in circular series. A series of such racks when assembled in cylindrical form have a central opening into which the heads of the radially-disposed bottles project when, as much preferred, the bottle-necks are supported in and extend through the inner members of the racks. The whole circular assemblage of racks is contained in a cylindrical casing or barrel having a closed bottom and a removable cover, and each rack may be independently removed and replaced, as desired. The bottles may be readily placed in the racks and the latter dropped into position in the casing, making packing for shipment easy and inexpensive, and the racks can be individually removed and the bottles from each rack be used and replaced to great advantage.

In the drawings, which show a practical and efficient embodiment of this invention, Figure 1 is a perspective view of the case or receptacle with the cover raised, showing the manner of arranging the individual holders therein and the means for keeping the racks or holders against the sides of the receptacle. Fig. 2 is a perspective view of one of the racks or holders removed, showing several bottles in place therein. Fig. 3 is a similar view of a holder with the bottles removed and the folding section of the base-piece thrown down in the position it will occupy when it is desired to place the bottles in the holder or remove the same; and Fig. 4 is a detail broken section of the bottom of the case, showing the means which in conjunction with means carried by the cover of the receptacle serves to keep the holders against the sides of the receptacle.

In the drawings the numeral 1 represents a cylindrical case or receptacle constructed of some light material, such as wood, and of such strength as will enable it to stand the wear and tear incident to frequent shipment. It does not differ materially from a barrel, except the bilge is eliminated, the sides being parallel.

Referring particularly to Figs. 2 and 3, the numeral 2 designates the outer wider member or base of the holder, which is preferably constructed of wood and formed in two parts—a rigid part or section 3 and a hinged or movable part or section 4. Firmly secured to the ends of the section 3 are end pieces 5, having converging sides 6 to enable the holders to be packed in circular series in the receptacle 1. To the upper ends of the pieces 6 are securely attached the ends of an inner narrower member or strip 7, provided with a series of openings 8 for the reception and passage of the bottle-necks. Corresponding in number to the openings in the strip are a series of semicircular seats or recesses 9 in the rigid section 3 of the base-piece, and in the section 4 of the base-piece is provided a corresponding number of similar recesses 10, which when the section 6 is in the position shown in Fig. 2 will form a series of circular seats for bottles.

For locking the section 4 in closed position or in the position in which the bottles are locked in the holder I provide an ordinary hook and staple 11; but it is obvious that this

is a minor feature, and any well-known device suitable for this purpose may be employed. To further strengthen the holder and make the same more rigid, I preferably provide a plurality of braces 12, having their upper and lower ends connected, respectively, to the strip 7 and rigid portion 3 of the base-piece.

It is desirable that there should be a little play between the individual holders when they are in place in the case or receptacle for the purpose of readily removing the first of the holders in unpacking the case. However, this play is not desirable when the holders are packed for shipment, and to hold them snugly against the inside of the receptacle I provide a projection 13 on the under side of the cover 14, which projection will enter the circular space 15 between the inner ends of the racks or holders and will abut against said ends with a wedging tendency that will force the holders into close engagement with the inside of the receptacle. As shown in Fig. 4, the bottom of the receptacle or case is provided with a similar projection 16, which abuts against the inner ends of the holders near their lower ends.

In packing the bottles for shipment the individual holders are filled by throwing down the section 4 and inserting the necks of the bottles through the openings 8 in the strip 7 and seating the bottles in the seats. When the holders are filled, closed, and latched, and placed in the receptacle or case 1 in circular series, the bottles will be brought in a position with the heads radiating toward the center, as shown, but will be kept sufficiently spaced apart to prevent the closures or seals thereof from contacting, rendering it impossible to impair them, thus preventing loss that would otherwise result.

I have shown as a means for fastening the cover of the case an ordinary hook and staple; but it will be understood that any suitable fastening device may be employed.

I claim—

1. A series of independent converging bottle racks or holders each composed of two connected members of different widths, an outer wider one having means for supporting the base ends of a series of bottles, and an inner narrower one having means for supporting the neck ends of the bottles, whereby the racks may be assembled in cylindrical form, combined with a cylindrical shipping-case in which the assemblage of racks fits.

2. A series of independent converging bottle-racks each composed of two connected members of different widths, an outer wider one having means for supporting the base ends of a series of bottles and an inner narrower one having apertures in which the necks of the bottles are supported and through which the heads of the bottles extend, whereby the racks may be assembled in cylindrical form around a central space into which the heads of the bottles will project, combined with a cylindrical shipping-case in which the assemblage of racks fits.

3. A series of independent converging bottle-racks each composed of two connected members of different widths, an outer wider one having means for supporting the base ends of a series of bottles and an inner narrower one having apertures in which the necks of the bottles are supported and through which the heads of the bottles extend, whereby the racks may be assembled in cylindrical form around a central space into which the heads of the bottles will project, combined with a cylindrical shipping-case in which the assemblage of racks fits, and means for locking the bottles in the racks.

4. A bottle-rack comprising a base-piece adapted to support the base ends of the bottles, a strip rigidly maintained with relation to the base-piece and having apertures therethrough for the passage of the necks of the bottles, connecting members connecting the base-piece and strip, said members being inclined from the base-piece toward said strip, whereby the individual racks or holders may be packed in circular series.

5. A bottle-holder comprising a base-piece formed of a rigid section and a movable section adapted to fold against the bottoms of the bottles to lock them in the holder, and two converging sides, whereby the individual holders may be packed in circular series, and means at the upper ends of the converging sides for holding the bottle-necks, substantially as described.

6. A bottle-holder comprising a base-piece formed of a rigid section having bottle-seats therein, and a second section also having bottle-seats therein and adapted to fold against the bottoms of the bottles to lock them in place in the holder, and converging sides connected at their upper ends by a strip provided with means for holding the bottle-necks.

7. In a packing and shipping case the combination with a circular case, of a series of bottle-holders each comprising a base-piece and converging sides whereby the individual holders may be packed in circular series, means at the upper extremities of the holders for holding the bottle-necks, and means carried by the case for keeping the individual holders fitted tightly in the case when the same is closed, substantially as described.

8. In a packing and shipping case the combination with a circular case, of a series of bottle-holders each comprising a base-piece and converging sides whereby the individual holders may be packed in circular series, and means at the upper extremities of the holders

for holding the bottle-necks, a projection in the bottom of the case and a similar projection on the cover thereof which in conjunction with each other serve when the case is closed to keep the holders tightly fitted in the case.

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

HALLACK A. PENROSE.

Witnesses:
WALTON H. MARSHALL,
AUGUSTUS NULLE.