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2,036,876

CARBOY CARRIER

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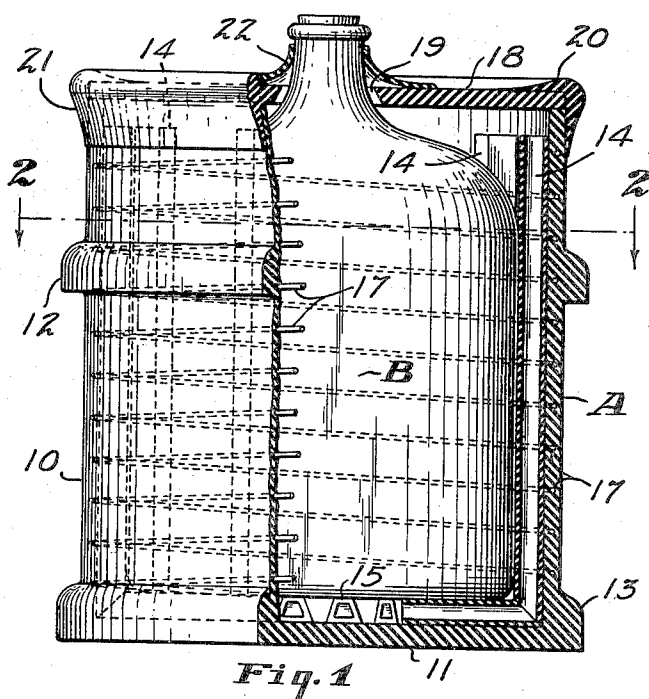


Fig. 1

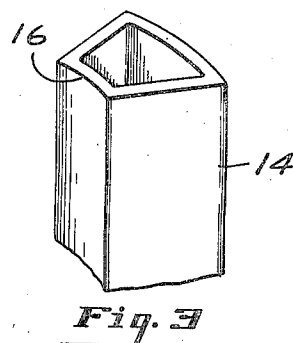


Fig. 3

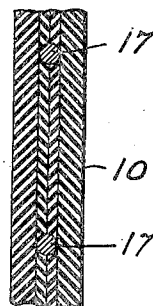


Fig. 4

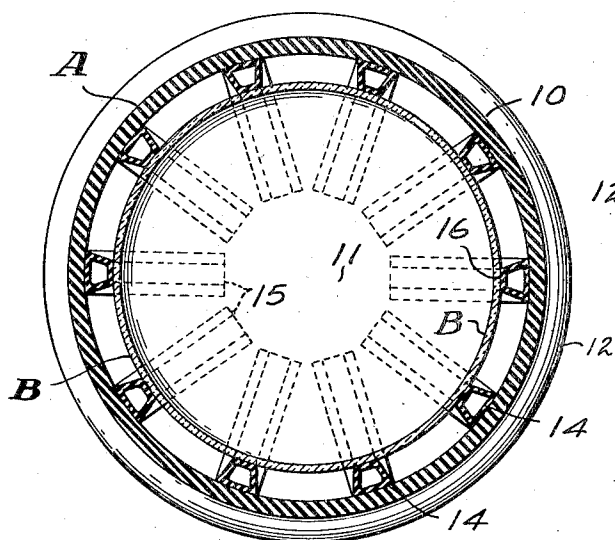


Fig. 2

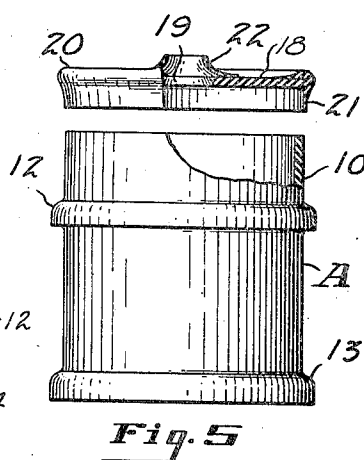


Fig. 5

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CARBOY CARRIER

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10 Claims. (Cl. 150—52)

This invention relates to containers and more particularly to containers for glass carboys.

One of the objects of the present invention is to provide an improved container for carboys and the like which will allow the transportation of carboys with a greater degree of safety.

Another object is to provide a container for holding and transporting carboys, in which the carboy is snugly held in place and cushioned against shocks.

A further object is to provide a container of vulcanizable fibrous material for holding and transporting carboys, which is rugged and which cushions the carboy against shocks.

With the above and other objects in view, the present invention consists of certain features of construction and combinations of parts to be hereinafter described with reference to the accompanying drawing, and then claimed.

In the drawing, which illustrates a suitable embodiment of the invention,

Figure 1 is a side elevation, partially in section, of the container, showing the carboy positioned therein;

Fig. 2 is a section of the container taken approximately on the line 2—2 of Fig. 1;

Fig. 3 is a fragmentary perspective view of one of the cushioning elements;

Fig. 4 is an enlarged section taken through the wall of the container showing the metallic reinforcement and showing the arrangement of the sheets of material employed in the container; and

Fig. 5 is an elevation showing the container and cover in separated relation, portions of the same being in section.

Referring to the accompanying drawing, in which like numerals refer to like parts throughout the several views, the container A comprises an annular body 10 having a closed bottom 11 and an open top and provided with an inverted chime 12 intermediate its ends to form a means which may be grasped in order to facilitate the carrying of the container, and a chime 13 adjacent the bottom 11.

Arranged within the container are a plurality of parallel vertically extending cushioning elements 14 of hollow and resilient construction which are secured to the inner wall of the annular body 10. Similarly shaped cushioning elements 15, which are secured to the bottom 11 extend radially inwardly from the vertical elements 15. The cushioning elements 14 and 15 are preferably of rubber and frusto-conical shape in cross section, and the inner surfaces 16 of the vertical elements 14 are slightly arcuate.

The carboy B fits snugly between and is yieldably gripped by the vertical elements 14 and rests upon the lower or bottom elements 15 as shown in Fig. 1, so that it is cushioned against shocks.

The body 10 and bottom 11 are comprised of laminated vulcanizable stock and the body 10 is preferably provided with a reinforcing element 17 embedded therein, which is preferably in the form of a coiled wire as shown in Fig. 1.

The stock used for the laminated sheets shown in Fig. 4 may be of any suitable vulcanizable material. One suitable material is comprised of a sheet formed of small particles of rubberized fabric, such as is used in the manufacture of pneumatic tires. These may be the clippings and waste of the rubberized fabric which are ground into small particles and then formed into sheet formed by passing the same through sheet forming rolls.

The laminations, if desired, may be of a varying degree of hardness.

The sheets forming the body are assembled into circular form with the reinforcing element 17 disposed therebetween and then disposed upon the bottom 11, after which the chimes 12 and 13 and the cushioning elements 14 and 15 are placed in position. The entire assembly is then cured while subjected to heat and pressure in a suitable heater to vulcanize the same and form an integral one piece structure.

A suitable cover 18 is also provided and this may also be of the same material as the bottom and body. The cover 18 is formed with a central opening 19 for the reception of the neck of the carboy B, and provided at its periphery with a ring 20 of rubber vulcanized thereto at its outer periphery, the ring having a flexible flap or flange 21 of substantial length.

Also vulcanized or otherwise secured to the cover 18 adjacent the central opening thereof is an annular disk 22 of rubber. After the carboy B is placed within the container A the cover 18 is placed over the neck of the carboy to rest upon the container body, the flexible flap 21 being extended over the open end of the container as indicated in Fig. 1 and then cemented by a cold cure to the container body. The disk 22 flares outwardly as indicated, to closely fit the neck of the carboy.

When it is desired to remove the carboy from its container the flap or flange 21 is loosened by pulling the same away from the container body, since it is only secured thereto by a cold cure cement, and the cover is then lifted from the container, the disk 22 flexing to permit the removal of the cover 18.

The container described provides a convenient means for transporting glass carboys which is less cumbersome than the conventional wooden crate and allows the handling of glass carboys with a greater degree of safety, as the carboy is yieldably gripped by the resilient vertical members and is well cushioned against shocks. The chime intermediate the ends of the container provides a convenient means which can be grasped so as to easily carry the container.

Furthermore, it is to be understood that the particular forms of apparatus shown and described, and the particular procedure set forth, are presented for purposes of explanation and illustration and that various modifications of said apparatus and procedure can be made without departing from my invention as defined in the appended claims.

What I claim is:

1. A container for carboys, comprising an open end nonmetallic vulcanized body having a plurality of vertically extending resilient members within the same for snugly fitting the circumferential surface of the carboy and a plurality of resilient members on the bottom thereof for supporting the carboy, whereby to cushion the same against shocks, said resilient members being of rubber and of hollow frusto-conical shape in cross section.

2. A container for carboys, comprising an open end nonmetallic vulcanized body having a plurality of vertically extending resilient members within the same for snugly fitting the circumferential surface of the carboy to cushion the same against shocks, said resilient members comprising spaced tubular portions of rubber integrally carried by said container.

3. A container for carboys, comprising an open end nonmetallic vulcanized body having a plurality of vertically extending resilient members within the same for snugly fitting the circumferential surface of the carboy to cushion the same against shocks, said resilient members comprising spaced tubular portions of rubber of frusto-conical shape in cross section and integrally carried by said container.

4. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, said resilient means comprising a plurality of tubular rubber members of frusto-conical shape in cross section secured to the interior surfaces of said bottom and body parts.

5. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container

for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, said resilient means comprising a plurality of tubular rubber members vulcanized to the interior surfaces of said bottom and body parts.

6. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, and a cover portion having a flexible circumferential flange of rubber to overlap and snugly fit the end of said body portion.

7. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, and a cover portion having a flexible circumferential flange of rubber to overlap and snugly fit the end of said body portion, said flange being arranged to be cemented to said body portion.

8. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, and a cover portion having a flexible circumferential flange of rubber to overlap and snugly fit the end of said body portion, said cover portion also having a central opening for the neck of the carboy.

9. A container for carboys, comprising an annular body portion, a bottom portion integral therewith, and resilient means carried by said bottom and body portions within the container for cushioning the carboy against shocks, said portions being of a vulcanizable fibrous material, and a cover portion having a flexible circumferential flange to overlap and snugly fit the end of said body portion, said cover portion also having a central opening for the neck of the carboy, and a flexible annular disk of rubber secured thereto concentric with said opening to resiliently engage the neck of the carboy.

10. A container for carboys, comprising a relatively thick annular body portion of vulcanizable fibrous material, an annular reinforcing element in the form of a coiled metallic member embedded in said body portion, a bottom portion of vulcanizable fibrous material integrally united with one end of said body portion, and a plurality of resilient means carried by said bottom and body portions within the container for cushioning the container to be carried therein against shocks.

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