C. P. TOLMAN.

SHIPPING RECEPTACLE.

APPLICATION FILED JAN. 17, 1918.

1,420,463. Patented June 20, 1922.

Fig. 1.

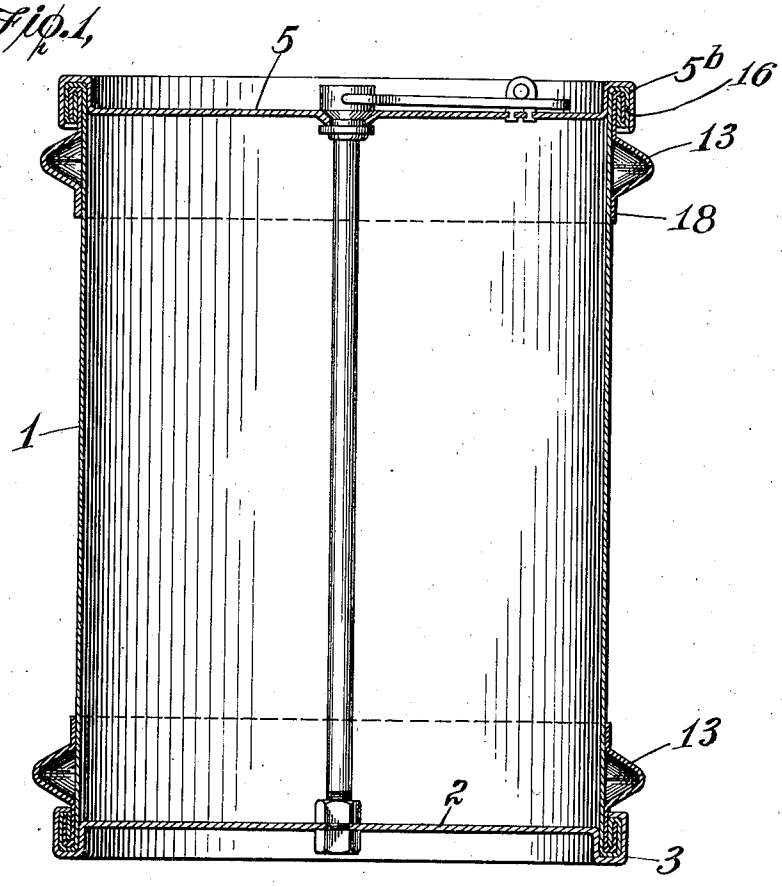


Fig. 2.

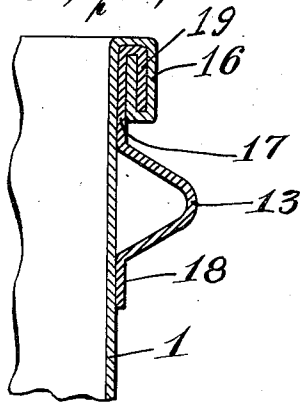
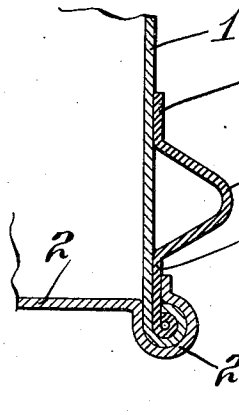


Fig. 3.



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SHIPPING RECEPTACLE.

1,420,463. Specification of Letters Patent. **Patented June 20, 1922.**

Original application filed May 23, 1914, Serial No. 840,430. Divided and this application filed January 17, 1918. Serial No. 212,323.

To all whom it may concern:

Be it known that I, CHARLES P. TOLMAN, United States citizen, residing in New Rochelle, New York, (formerly in New York city), have invented the following described Improvements in Shipping Receptacles.

The invention relates to receptacles or kegs adapted for shipping heavy contents, and the object is to provide such receptacles with rolling hoops in a simple and economic manner affording great strength and durability and at the same time generally reinforcing the structure and particularly the rims of the receptacle.

In the drawings:

Fig. 1 is an axial section through a receptacle embodying the invention;

Fig. 2 an enlarged detail section of the top rim; and

Fig. 3 the same of a modified form of seam.

The receptacle shown has a cylindrical body 1, in part at least formed of sheet metal, with separate heads 2 and 5, at its ends of which the bottom head 2 is permanently fixed to the body while the top head 5 is removable as a cover and preferably after the manner fully set forth in U. S. Letters Patent No. 1,256,184, issued on my co-pending application Serial No. 840,430, filed May 23, 1914, of which this application is a division. The rolling hoops 13 are formed of sheet metal pressed or otherwise formed with a V-shaped cross-section and with outstanding flanges 17 and 18 one of which may be wider than the other according to circumstances. They may be made from a flat strip of sheet metal longitudinally creased as indicated, curved and butt-welded and of a diameter to fit over the body 1 before the top rim and bottom seam thereof are formed or completely formed. The said rims, or rim and seam, are formed by folding or rolling together the edge material of the body and one of the hoop flanges, preferably the flange 17 which is wider than the other for that purpose. As shown in Figs. 1 and 2 the folded wall 16 of the body completely surrounds and encloses the folded layer or layers 19 of the hoop flange, thus securely locking the one to the other and providing a solid and thick top rim which does not require a bead wire or other reinforcement. The cover flange 5^b fits over this top rim as shown in Fig. 1. In the case of the bottom rim or seam which may be formed in the same manner, the bottom head is flanged over the seam as shown at 3, or folded thereon or therein, in any manner providing an adequately secure attachment and a sufficiently reinforced corner for the receptacle. Fig. 3 illustrates a modified method of folding the three layers together to form a reinforced rim, the bottom head flange 2^c completely enclosing the other members and interlocking therewith and with the rolling hoop.

The hoop flanges 18 serve as bearing for the hoops upon the receptacle body and may be left free or may be united to the body by spot welding them together at intervals or otherwise, as desired and according to the degree of rigidity required. It will be observed that the reinforced rims or ends of the body project only on the outside of the receptacle leaving the interior unobstructed, and that they are in turn protected by the greater projection of the rolling hoops, which are specially effective for this purpose when disposed near the rims as shown. The rolling hoop projects a substantial distance laterally or outwardly from the body of the receptacle and its seams. It will be further apparent that the invention consists in the incorporation of the rolling hoops in, or their attachment to, the rims or seams of the receptacle and that it is independent of any particular or specific manner of forming said rims or seams or of the material thereof, all of which detail my be infinitely varied to meet the purposes for which the receptacle is to be used.

What I claim as new is:

1. A shipping receptacle having a folded rim or seam structure at each end thereof and two rolling hoops beside the same, each hoop projecting laterally beyond the adjacent rim or seam structure and being directly attached thereto.

2. A shipping receptacle having a rolled or folded rim or seam at each end thereof and a sheet metal rolling hoop incorporated in each rim or seam structure and projecting laterally beyond the same.

3. A shipping receptacle having a folded rim or seam at each end thereof and two flanged rolling hoops each projecting laterally beyond the adjacent rim or seam, the

flanges on the hoops being folded into the rim or seam structures.

4. A shipping receptacle having a folded rim or seam at each end thereof and two rolling hoops flanged at both sides and projecting laterally beyond the rim or seam structures, one of the flanges of each hoop being incorporated in the adjacent rim or seam structure and the other having a bearing on the body of the receptacle.

5. In a metallic shipping receptacle having a rolled or folded rim, a V-shaped rolling hoop projecting laterally beyond said rim and having a flange incorporated therein and an outstanding flange bearing upon the body of the receptacle.

6. A shipping receptacle of the kind described comprising a cylindrical-walled sheet metal body provided with a rolled rim and bottom seam, and pressed sheet-metal rolling hoops secured to the ends of the body in projecting relation to and at the side of said seam and rim respectively.

7. A shipping receptacle formed of sheet-metal with a rolled seam at one end and a rolled rim at the other end and rolling hoops having portions incorporated in said seam and rim respectively.

8. A shipping receptacle of the kind described comprising a sheet metal body with a rolled seam and rim, sheet metal rolling hoops formed of V-shaped cross-section and with side flanges of unequal width, the wider of said flanges being rolled into the seam and rim.

In testimony whereof, I have signed this specification.

CHARLES P. TOLMAN.