C. VOLTZ.

METAL BARREL.

APPLICATION FILED AUG. 14, 1917.

1,296,721. Patented Mar. 11, 1919.

Fig. 1.

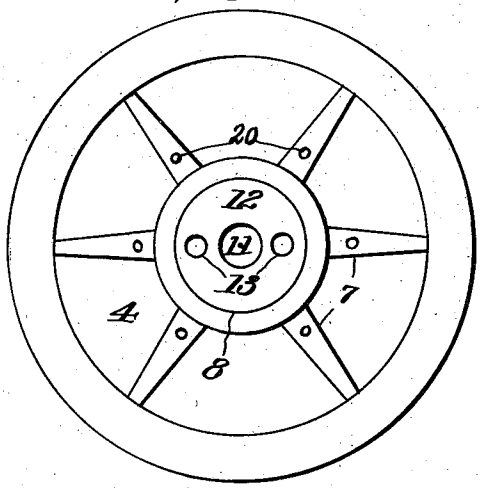


Fig. 3.

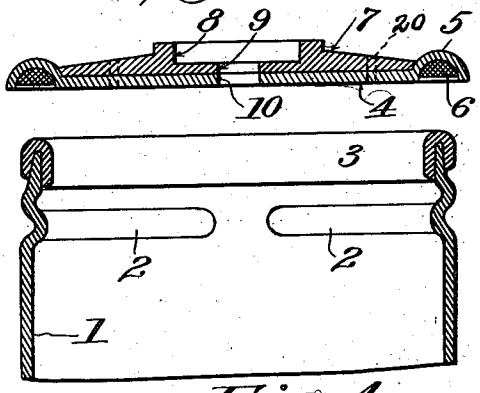


Fig. 4.

Fig. 2.

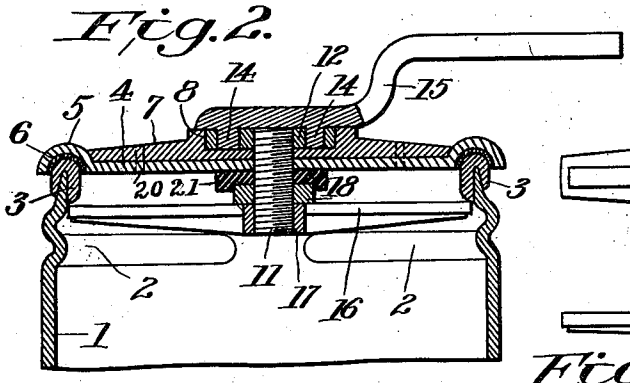


Fig. 5.

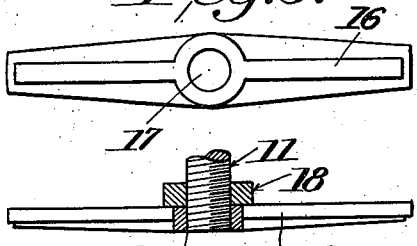


Fig. 6.

Fig. 9.

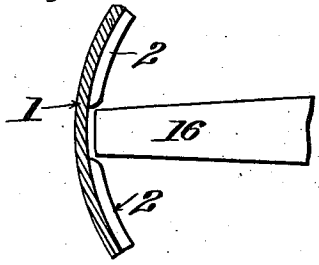


Fig. 7.

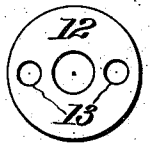
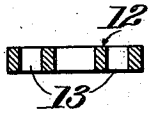


Fig. 8.



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METAL BARREL.

1,296,721. Specification of Letters Patent. Patented Mar. 11, 1919.

Application filed August 14, 1917. Serial No. 186,157.

To all whom it may concern:

Be it known that I, CHARLES VOLTZ, a citizen of the United States, residing at New York, in the county of Queens and State of New York, have invented certain new and useful Improvements in Metal Barrels, of which the following is a full, clear, and exact specification.

This invention relates to metal barrels or containers especially designed for the shipment or storage of powders, plasters, soda ash, rubber cements, heavy oils, greases, and the like, and has for its object to provide a straight walled container from which the hardened contents may be dumped in bulk and which is proof against leakage and evaporation.

A special object is to provide an improved closure or head for such containers, and means for locking said closure or head on the container so as to seal the same without employing obstructions in the container which would prevent the contents thereof from being dumped in bulk. Other objects will appear as the description proceeds.

The invention will be first hereinafter described in connection with the accompanying drawings, which constitute part of this specification, and then more specifically defined in the claims at the end of the description.

In the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views:—

Figure 1 is a top plan view of the container with the head fastened thereon.

Fig. 2 is a central vertical section of the upper portion of the container with the head or cover in place, the spanner wrench being also shown as used for tightening up the nut for holding said head in position.

Fig. 3 is a sectional view of the head.

Fig. 4 is a sectional view of the upper portion of the container.

Fig. 5 is a detailed under plan view of the locking bar.

Fig. 6 is a side view of said bar partly in section with the stud and lock nut therefor attached.

Figs. 7 and 8 are plan and sectional views of the nut used above the head or cover, and

Fig. 9 is a detailed view to illustrate how the locking bar is engaged with the ribs on the container.

The barrel or container 1 has formed or pressed in its end portion a pair of spaced or sectional and partially encircling ribs or beads 2, and at its extreme end or mouth said container is fitted with a rounded metal chime 3 welded or otherwise permanently secured thereto. The head or cover comprises a sheet metal disk 4 having a peripheral groove 5 containing packing 6 adapted to fit upon the chime 3. Said disk 4 is reinforced by a cast metal spider 7 having a socket 8 in the center and a perforation 9 at the center of said socket. The disk has a perforation 10 registering with the perforation 9 for the passage of a screw threaded stud 11 on the upper end of which a nut 12 may be screwed, said nut fitting the socket 8 and having cavities or perforations 13 to receive the lugs 14 of a spanner wrench 15 by means of which said nut is rotated on the stud 11.

A locking bar 16, preferably made in truss form as illustrated in Figs. 2, 5 and 6, is adapted to engage the lower edge of the chime 3 on the inside of the container, and is provided with a screw threaded central opening 17 into which the lower end of the stud 11 is screwed and held by a lock nut 18. To fasten the head on the container, the locking bar with the stud 11 attached thereto, as shown in Fig. 6, is passed endwise down into the container in order to avoid the chime 3, and after being turned to horizontal position, said bar is brought up through the spaces between the ribs 2, as illustrated in Fig. 9, until the ends of the bar engage the chime 3, as in Fig. 2. The cover or head is then put on with the upper end of the stud 11 projecting up through the openings 10 and 9 into the socket or cavity 8, and the nut 12 applied to said stud and tightened up by the spanner wrench. The head or cover is thus firmly clamped on the chime without strain on the walls of the container. After being passed through the spaces between the sectional ribs 2, the locking bar is turned to bring its ends out of line with said spaces, so that the ribs will prevent the bar from dropping back into the container while the cover or head is being fastened on or taken off. The spider is fastened to the sheet metal cover in any suitable manner, as by the rivets 20. The outer surface of the spider around the socket 8

may be flush with the outer surface of the grooved periphery 5 of the cover so that the barrel will set level on its end, if desired.

When the container is used for holding a liquid, a gasket 21 may be placed around the stud 11 between the locknut 18 and the inner surface of the cover to prevent leakage through the perforations 9 and 10 around the stud. While the stud 11 is shown as adjustably mounted on the bar 16, it may be made integral therewith if desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. The combination with a container having sectional ribs near its mouth, of a continuous encircling abutment arranged at the mouth of the container and spaced from the sectional ribs, a locking bar adapted to span the interior of the container and engage the abutment after being passed between said sectional ribs, a cover, and means carried by said bar for locking the cover in place.

2. The combination with a container and a cover having a perforation, of a continuous encircling abutment at the mouth of the container, a locking bar to span the interior of the container and engage the lower edge of the abutment, sectional ribs on the walls of the container below said bar for the purpose specified, and a stud carried by the bar and extending up through the perforation in the cover for locking the same in place.

In testimony whereof I have signed my name to this specification.

CHARLES VOLTZ.