

No. 845,946.

PATENTED MAR. 5, 1907.

J. F. HAFPEY.

JUG TOP.

APPLICATION FILED MAR. 24, 1905.

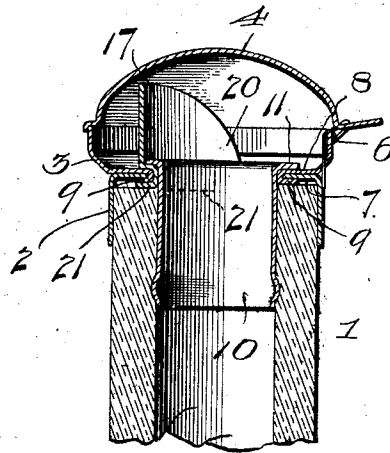


Fig. I.

Fig. II.

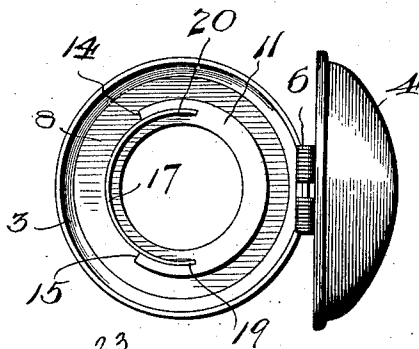


Fig. III.

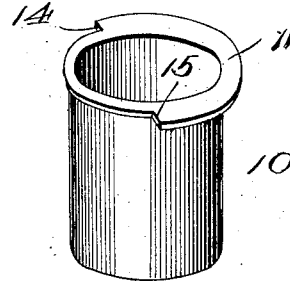


Fig. V.

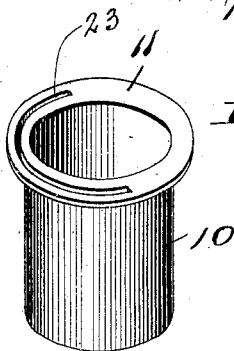
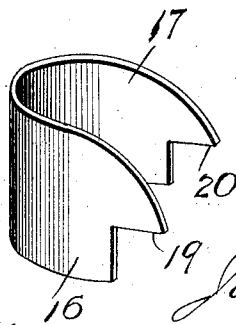


Fig. IV.



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Witnesses

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UNITED STATES PATENT OFFICE.

JAMES F. HAFLEY, OF TIFFIN, OHIO, ASSIGNOR TO CHARLES S. BARON, OF TIFFIN, OHIO.

JUG-TOP.

No. 845,946.

Specification of Letters Patent.

Patented March 5, 1907.

Application filed March 24, 1905. Serial No. 251,872.

To all whom it may concern:

Be it known that I, JAMES F. HAFLEY, of Tiffin, State of Ohio, county of Seneca, have invented certain new and useful Improvements in Jug-Tops, of which the following is a specification.

The object of my invention is to produce improvements in metallic tops for fragile vessels, particularly molasses-jugs of the general type shown in my copending application, Serial No. 251,871, filed March 24, 1905, wherein special provision is made for securing a lip to the top through the direct agency of a special assembling member.

My invention relates specifically to the manufacture of tops of the kind above referred to from sheet metal and provides for the assembling of the several members of such a top without the use of solder.

In the accompanying drawing, which forms part of this specification, Figure I is a central vertical section of one of my tops in its preferred form of embodiment and of a neck of a molasses-jug to which it is attached, the lid of the top being shown in the closed position. Fig. II is a top plan view of the subject-matter of Fig. I with the lid open. Fig. III is a perspective view of the internal cylinder of the top detached. Fig. IV is a perspective view of the lip-blank detached previous to its being crimped. Fig. V is a view similar to Fig. III, showing a slight modification thereof.

Referring to the numerals on the drawing, 1 indicates, by way of example, the neck of a molasses-jug, to which a top of that general type described in my previous application above referred to is attached. The top includes the same collar 2, rim 3, lid 4, and actuating spring-hinge 6 as the top described in that application. It also includes an internal cylinder or depending skirt coaxial with the collar 2, but which besides being united to the top differently from the skirt of the assembling member, as previously shown in my copending application and constituting an assembling member thereof, is itself secured thereto by a special and independent assembling member—to wit, the lip.

One advantage of my present invention is the elimination of the constriction of the opening into the interior of the jug through the jug-top and the making of the inner wall of the neck and the inner wall of the opening

through the jug-top substantially flush with each other.

Referring again to the numerals on the drawings, it is specified that the collar 2 is provided with an inturned annular flange 7 and the rim 3 with a like flange 8, which when the parts are assembled lies against the flange 7. The width of the flange 8, however, preferably exceeds that of the flange 7 sufficiently to allow the flange 8 to be lapped under and crimped about the flange 7, the crimp being clearly indicated in Fig. I by the reference-numeral 9.

10 indicates the depending cylindrical skirt above referred to, which is provided with an outwardly-turned annular flange 11. The flange 11 is reduced in width from the shoulder 14 to the shoulder 15 for the accommodation of the skirt 16 of a lip-piece 17. The part 17, being suitably shaped to form a jug-lip, as shown in Fig. I, is provided with projecting wings 19 and 20, which when the lip-piece 17 is assembled with the other parts of the device override, engage, and securely hold in place the flange 11 with the skirt 10 appurtenant thereto.

By my present device the necessity for the crimping of the cylinder 10 and the consequent constriction of the throat or opening through the jug-top are obviated, the lip-piece or spout 17 in the present instance being constituted the assembling member for uniting the skirt, lip, and top together. The lip-piece 17 is made to perform its function of an assembling member by the crimping of its skirt 16 about the flanges 7 and 8, the crimp being indicated by the numeral 21 in Fig. I of the drawings.

After the parts are assembled in the manner above described, the flanges 7 and 8 being preferably independently united by the crimp 9 of the flange 8 about the flange 7, the cylinder 10 is slipped through the opening of the jug-top defined by the crimp 9, the lip-piece 17 is slipped into place, and then by the forming of the crimp 21 by the bending or overlapping of the skirt 16 of the lip-piece the parts are rigidly united, the wings 19 and 20 of the lip-piece serving by engagement of the flange 11 to hold said flange and its skirt 10 securely in place.

It may be observed that whereas the crimp 21 may extend and preferably does extend only partially around the inner circumfer-

ence of the flanges 7 and 8, for which reason the crimp 9 is preferably employed as independent means for uniting said flanges, the engagement of the wings 19 and 20 with the flange 11 is amply sufficient to snugly hold that flange in place, more especially because any tilting movement of the skirt 10 upon the flange 8 is prohibited by the engagement of said skirt with the inner wall of the jug-neck, as clearly shown in Fig. I. Instead of cutting away part of the flange 11 entirely between the shoulders 14 and 15 the said flange may be provided, as shown in Fig. V, with a slit 23, corresponding in position, function, and extent to the said cut-away portion shown in Fig. III.

What I claim is—

1. The combination with the neck of a jug, of a sheet-metal jug-top provided with a collar and a rim, a depending internal sheet-metal cylinder extending flush with said jug-neck throughout the extent of said cylinder, and a sheet-metal member adapted to secure said cylinder, collar, and rim together.

2. In a jug-top, the combination with its collar and rim, of a depending internal cylinder substantially concentric with the collar throughout its length, and a separate member adapted to secure said cylinder, collar, and rim together.

3. In a jug-top the combination with annularly-flanged collar and rim, of a depending skirt and a separate member for uniting said skirt to the collar and rim flanges.

4. In a jug-top the combination with annularly-flanged collar and rim, of a depend-

ing skirt and a separate crimped member adapted to unite said skirt to said collar and rim flanges.

5. The combination with a jug-top, of an internal depending skirt a spout adapted to be secured to the top and means upon the spout for securing said skirt to the top.

6. In a jug-top the combination with annularly-flanged collar and rim, of a depending skirt provided with a flange, a lip-piece adapted to engage and hold said flange and means for securing said lip to the collar and rim flanges.

7. In a jug-top the combination with annularly-flanged united collar and rim, of a depending skirt provided with a flange, a lip-piece provided with a skirt and means of engaging said flange of the depending skirt, and a crimp formed in the skirt of the lip about the collar and rim flanges.

8. In a jug-top the combination with annularly-flanged united collar and rim, of a depending skirt provided with a flange, a lip-piece provided with a skirt and means of engaging said flange of the depending skirt, and a crimp formed in the skirt of the lip about the collar and rim flanges, the flange of the depending skirt being cut away to accommodate the crimp of the lip-piece.

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

JAMES F. HAFHEY.

Witnesses:

RALPH W. FACINGER,
FRANK T. DARE.