Feb. 12, 1935. W. W. SMITH 1,991,182

METHOD OF FORMING A CONTAINER

Filed Aug. 1, 1929

Fig. 1.

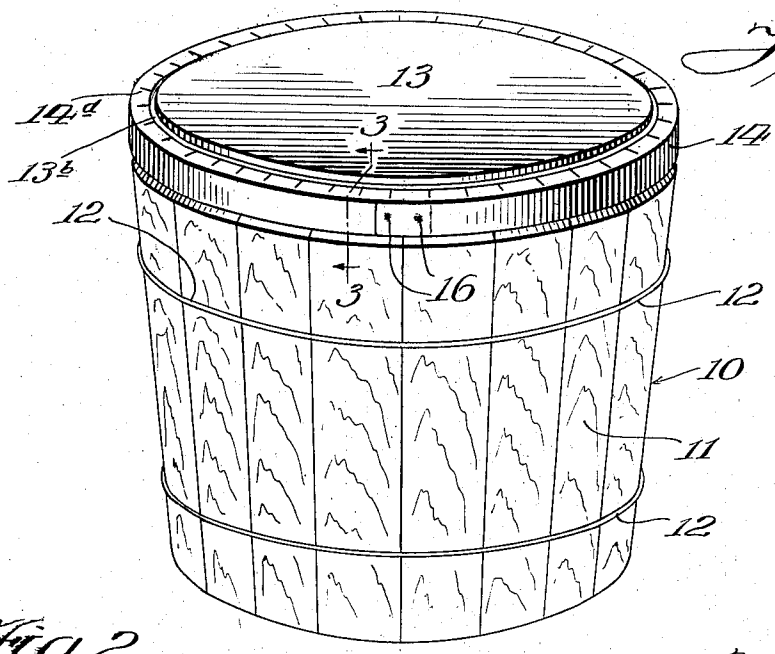


Fig. 2

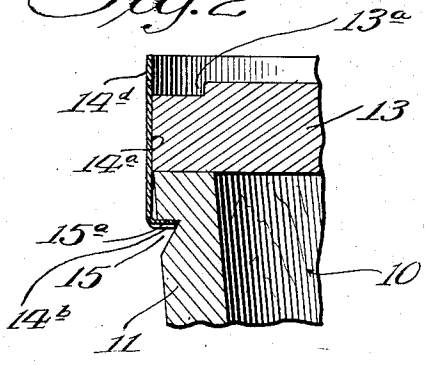


Fig. 3

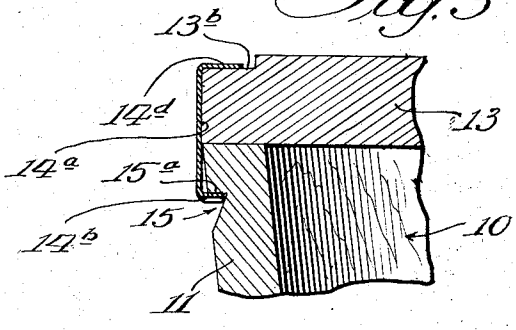
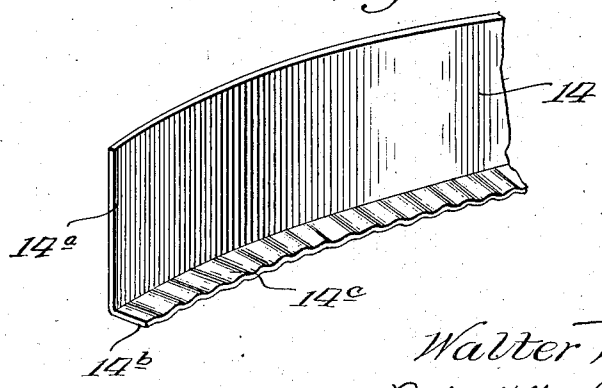


Fig. 4



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METHOD OF FORMING A CONTAINER

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1 Claim. (Cl. 153—1)

This invention relates to improvements in candy pails and other containers and its purpose is to provide improved means for securing the cover in place on the body of the pail or container. It has been the practice in the manufacture and use of wooden containers and the like to provide the container with a wooden cover secured thereto by nails or other fastening means. The principal object of the present invention is to provide an improved pail or other container comprising a vessel and a cover which are united by a metallic band or rim which is permanently attached to one of the container members before delivery to the customer or user and which is adapted to be bent into interlocking engagement with the other container member by the user, thereby avoiding the use of nails or other fastening devices. A further object of the invention is to provide an improved pail or container comprising a vessel having an annular recess therein which is engaged by an inwardly extending part of an upwardly directed annular band adapted to receive a cover within it and to be bent over the upper portion of the cover to hold it in place. Another object is to provide an improved method of forming a container adapted for use as a candy pail, butter tub, or the like. Other objects relate to various features of construction and arrangement which will appear more fully hereinafter.

The nature of the invention will be understood from the following specification taken with the accompanying drawing, in which one embodiment is illustrated. In the drawing,

Fig. 1 shows a perspective view of a wooden pail embodying the improvements of the present invention;

Fig. 2 shows a detail vertical section through the upper edge of the pail and the adjacent portions of the cover and rim prior to bending the upper portion of the rim inwardly over the cover;

Fig. 3 is a detail section, similar to that of Fig. 2, taken on the line 3—3 of Fig. 1, showing the relative arrangement of the parts after the upper portion of the rim has been bent inwardly to engage an annular recess in the upper surface of the cover, and

Fig. 4 is a perspective view of a portion of the metallic rim or band in the form in which it is applied to the pail, as shown in Fig. 2, before placing the cover on the pail.

As illustrated in Fig. 1, the improved pail 10 comprises a plurality of upwardly extending wooden staves 11 which diverge upwardly to a slight extent and which are secured in assembled relation by means of a plurality of surrounding hoops 12 formed preferably of wire. Mounted on the pail 10 and seating on the upper ends of the staves 11, is a wooden cover 13 of circular form which is secured in place by means of a metallic band or rim 14.

The pail 10 is provided near the upper end thereof with an annular undercut groove 15 formed in the outer sides of the staves 11 and providing a substantially horizontal shoulder 15^a. The sheet metal rim 14 is constructed initially to have the form shown in Fig. 4, where it is illustrated as comprising a cylindrical body portion 14^a having an inwardly extending flange 14^b along the lower edge thereof. The flange 14^b may be formed by passing the band through suitable rollers to bend it inwardly and corrugate it transversely as shown at 14^c. The ends of the band 14 are arranged to overlap each other as shown in Fig. 1, and these overlapping ends are secured together by spot welds or rivets as shown at 16. The complete circular band having the overlapping ends secured together is formed before application to the pail and is then passed into engagement with the pail by compressing the upper ends of the staves sufficiently to permit the band to be passed upwardly from below until its flange 14^b snaps into engagement with the recess 15 or, if preferred, the upper ends of the staves may be momentarily compressed to a sufficient extent to permit the band 14 to be passed downwardly from above until the flange 14^b engages the recess 15. With either method, the upper ends of the staves, when released, return to their normal positions so that the flange 14^b then has a definite interlocking engagement with the groove 15 and coacts with the shoulder 15^a. When the band 14 has thus been applied to the pail, the body portion 14^a thereof extends upwardly above the pail to receive the wooden cover 13 which is preferably provided around the outer portion of the upper surface thereof with an annular recess 13^a. The width of the band 14 is such that it extends above the cover 13 after the latter is in place on the pail, as shown in Fig. 2, and the upwardly projecting portion of the band is then bent inwardly by a suitable instrument to cause it to form an inwardly extending flange 14^d which overlies the upper surface of the cover to hold the cover firmly in place. In the embodiment illustrated, the flange 14^d coacts with the surface shoulder 13^b which constitutes the bottom of the recess 13^a.

The form of pail described above has the advantage that it may be manufactured with the band 14 applied thereto, as shown in Fig. 2, and

shipped to the user or consumer in nested relation, one within the other, while the covers are crated or tied in bundles and shipped separately. After the pails have been filled by the user with candy or some other commodity, the covers may be placed in position within the upwardly extending body portions 14^a of the rims and then the upper portions of these rims may be bent over to form flanges 14^d, as shown in Fig. 3.

Although one form of the invention has been illustrated and described in connection with one method of forming the improved pail, it will be understood that the invention may be embodied in various forms and constructed in various ways within the scope of the appended claim.

I claim:

The method of forming a container which consists in providing a wooden tub with an annular recess in its outer wall, then compressing the tub adjacent said recess and placing in position thereover a completed annular metallic band having an inwardly extending flange adapted to engage said recess when the compressed portion of said vessel is subsequently released, then relieving the compression of said vessel, then placing a cover on said vessel within said band, and then turning the edge of said band inwardly over the upper edge of said cover.

WALTER W. SMITH.