CLOSURE FOR BOTTLES, JARS, TIN CANS AND THE LIKE

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Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 5b.

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This invention relates to improvements in metallic closures for receptacles such as bottles, jars and tin cans and comprises a metal band combined with special constructive features of the cap or lid of the container and neck of the receptacle.

Reference is made to attached drawings in which:
Fig. 1 is a perspective view illustrating the metal band before being applied to the receptacle.
Fig. 2 is a perspective view of the lid or cap showing how the metal band is initially placed on the same and inserted in slots provided opposite each other on the bottom edge of the lid or cap and on the neck of the receptacle.
Fig. 3 is a vertical cross section of the lid or cap showing the shape of the stud punched in the side of the same.
Fig. 4 is a vertical cross sectional view showing how the metal band is applied to the cap and receptacle, the latter being shown in elevation.
Fig. 5 is a similar view showing the guide slot provided in the neck of the receptacle to allow the lid or cap to be placed in position while the band is shown as broken to permit removal of the cap.
Fig. 5B is a top plan view of the receptacle.
Fig. 6 is a similar view of the top of a slightly modified form of a receptacle showing the lid and metal band placed in position.
The combined device comprises the metal band 1, each end portion of which is provided with an outwardly projecting stud and at a certain distance from the studs the band is transversely grooved as at 3 to allow the band 1 to be placed through the slots 5 located opposite each other on the lower edge of the lid or cap, without breaking. The band is placed on the lid or cap, bent down over the sides and introduced through the slots 5.
The lower portion of the neck 7 is provided with an external annular bead 8 and with an annular groove 9. Two holding projections 10 are formed above the groove and are limited on both diametrical ends by wedges 11, and form opposed recesses 16 designed to facilitate the insertion of the lid or cap by allowing passage of the studs 2 on the band.

With reference to the constructive feature illustrated in Fig. 6, this is adaptable to tin cans and the like, and the only difference resides in the fact that the circular projection 10 completely surrounds the periphery of the top portion 13 of the neck, while the lid may be placed in position due to the flexible nature of the material that gives way as the lid is pressed on the container.

To carry out this invention, the band is placed on the lid or cap 4, with the end portions bent and straddled over the flange 6 of the lid, the grooves 3 being engaged in the slots 5, so that the lid will then be in a position to be placed on the container. The slots 5 are placed opposite the guide slots 12 provided on the bead 8, which guides coincide with the recesses 16 between the ends of the projection 10 of the bottle or tin can, pressure is then brought to bear on the lid until it is seated on the mouth 14. Once this operation has been carried out, two indentations 15 are punched inwards opposite each other on the sides of the flange 6 at equal distances from the wedge 11 of the projection 10. These indentations 15 constitute two supplementary retention devices, which jointly with the studs 2 of the band 1, establish a secure closure for the container, as the lid cannot be lifted without destroying the band, although it may be rotated around the neck of the container.

When the lid is to be lifted, it is rotated until the indentations 15 come opposite the guides 12. The band is cut and the lid lifted without any difficulty.

The advantage obtained by this invention is that the lid or cap of the container cannot be removed without first destroying the band thus preventing the replacement of the lid after tampering with the contents.

The modified construction illustrated in Fig. 6 is applicable to tin cans and the like; the only difference residing in the fact that there is no necessity of providing the lateral guide slots 12 due to the flexible nature of the tin that allows the studs 2 to be passed over the projections that give way as the lid is being pressed down.

When the bottles or jars contain substances that are liable to ferment or evaporate, a cork or similar washer 17 is inserted against the inner face of the top of the lid so that when it is pressed down on the mouth of the container it rests on the edge of the latter and forms an air tight closure.

Having thus described my invention and the manner in which it may be put into practice, what I claim as new and wish to protect by Letters Patent is:

1. In a closure of the character described, the combination with the neck of a receptacle provided with an external annular bead and with an annular groove adjacent the bead, a flanged
cover engageable over the mouth and neck and surrounding the groove, of a metallic band having its main portion arranged across the top of the cover and having the respective end portions foldable and straddled about the flange of the cover, and studs carried by the end portions and engaged in the groove and said main portion being weakened to facilitate tearing of the strip when it is desired to remove the cover.

2. A closure as claimed in claim 1, wherein the bead is provided at opposed points with recesses to facilitate passage of the studs into the groove, and wherein the cover is provided with opposed indentations engageable in the groove.

3. In a closure of the character described, the combination with the neck of a receptacle provided with an external annular bead at its mouth and provided with an annular groove adjacent the bead, a flanged cover engageable over the mouth and neck and surrounding the groove of a metallic band arranged across the top of the cover and on opposite parts of the flange thereof and having its respective end portions foldable about the lower edge of the flange so as to lie in contacting engagement with the inner surface of the flange of the cover and the neck of the receptacle, and studs carried by the portions of the band contacting the receptacle neck and engaged in the groove and the band being provided with weakened portions to permit breaking thereof when it is desired to move the cover from the receptacle neck.

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