

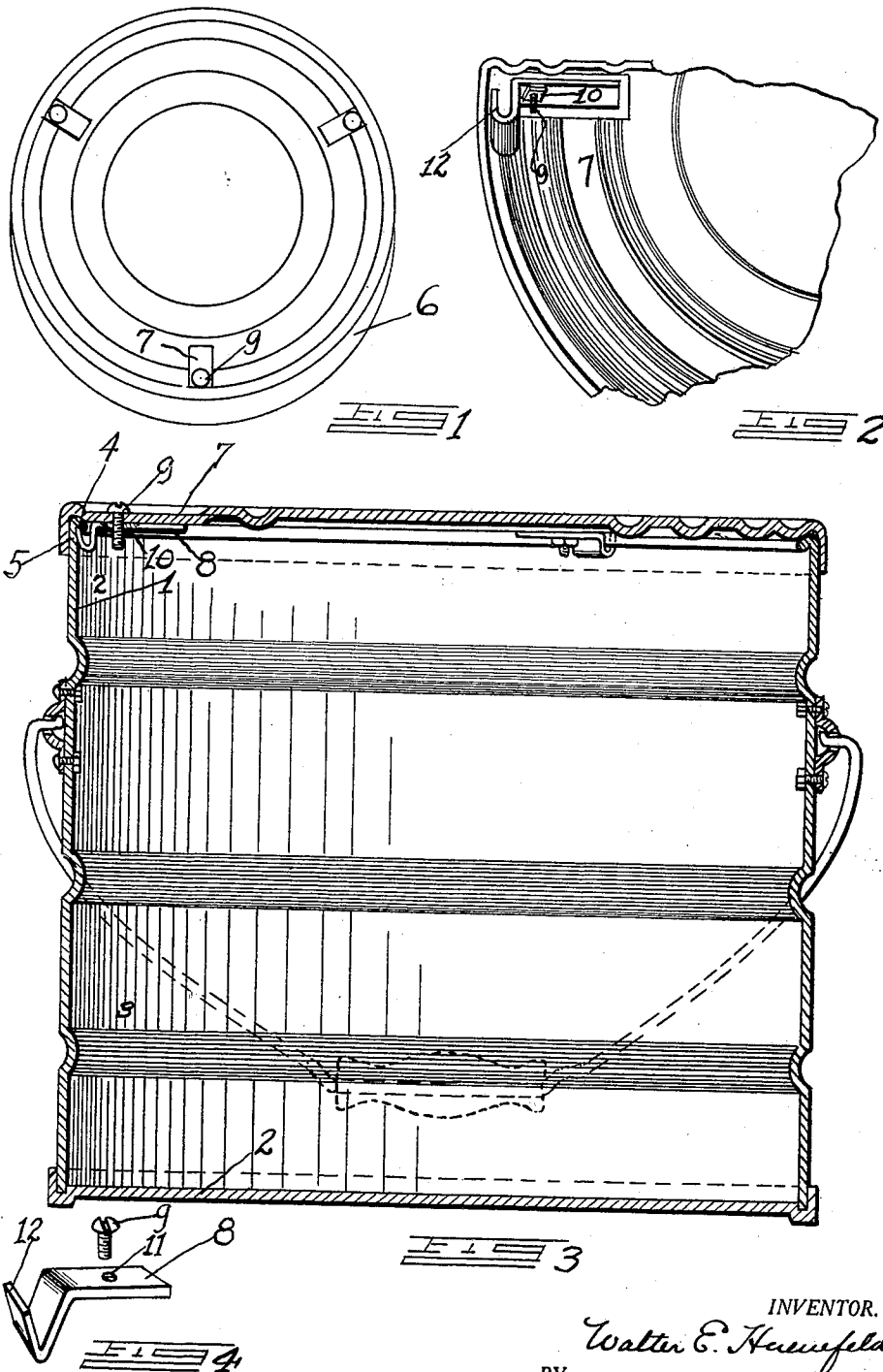
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CONTAINER

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CONTAINER

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My invention relates to containers, and particularly to a novel type of container having a self-locking closure.

It is the object of my invention to provide a container with a lid which will carry locking device, which, when the lid is applied to the container, will interlock with an intumed bead formed at the top edge of the container. It is further my object to provide screw headed bolts for the locking devices which will enable the receiver of the container to release the locking devices so that the lid may be removed.

As in all such packages for goods, it is an essential qualification that the container be inexpensive to make and also that it shall be of strong and rugged construction so that it will withstand shipping. It is my object to provide a container which will respond to such qualifications.

The above and other objects to which reference will be made in the ensuing disclosure I accomplish by that certain combination and arrangement of parts of which I have shown a preferred modification.

Referring to the drawings:—

Figure 1 is a perspective view of the lid.

Figure 2 is a bottom perspective view of a portion of the lid showing the preferred type of locking device.

Figure 3 is a sectional view through a container showing the container with the lid locked in position thereon.

Figure 4 is a perspective view of a modified type of locking device.

The preferred type of container is circular in shape and is preferably made from metal, although it may take other shapes, and the material is not a limitation. The container has a side peripheral wall 1 and a bottom 2, the sides being provided, if desired, with suitable reinforcing corrugations such as are indicated at 3. The top edge of the peripheral wall is formed with an intumed bead 4 which will ordinarily have an annular slot

5 within which the locking devices seat. This bead serves for a shoulder and a shoulder can be formed in various ways. In wood a groove might be cut, or in paper a band might be expanded or riveted near the top. Also, the shoulders can be spaced.

The lid for the container shown is preferably of the friction type, having a downturned wall 6 which frictionally engages the outer surface of the container wall. At radially spaced positions in the lid there are depressed portions 7 which seat the locking devices. The locking devices are composed of metal clips having a straight shank 8 through which screw-threaded bolts 9 may be passed. The bolt may either be secured with a nut 10, as indicated in Figures 2 and 3, or the hole through the shank piece may itself be threaded, as indicated at 11 in Figure 4. The locking devices have return bent outer ends 12 which, when the lid is applied to the can, lock under the bead formed at the top edge of the container wall.

The locking devices are so spaced from the edge of the lid that when the lid is applied the return bent portion is resiliently contracted at the return bend of the device so that as the lid seats on the container the ends of the clips will snap into place thereby snugly locking the lid in place.

In removing the lid the receiver uses a screw-driver to unscrew the bolts, and as soon as the bolts are turned clear off, the spring clips will remain within the can and the bolts may be removed with the lid.

If fiber containers or wooden tubs are used, the top edge of the walls will have to be provided with intumed beads or lugs to provide the shoulders with which the spring clips will interlock. In wooden tubs, for example, annular ledges might be cut in the wall of the tub on the inner side just below the top, so that the spring clips may lock under the annular ledge.

When the idea is once understood, modifi-

cations in the specific structure shown will readily occur to those skilled in the art without departing from the inventive idea involved.

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

1. A container having an inward projection on the inner surface of the side wall thereof, a lid for the container having a spring clip the end of which will interlock in said inward projection when said lid is applied to said container, and means for demountably mounting said clip on said lid.

15 2. A container having means at the inner surface of the side wall thereof to engage lid clips, a lid for the container having spring clips the ends of which will interlock with said means when said lid is applied to said container, and means for demountably mounting said clips on said lid, said means being releasable from the outside of said lid.

20 3. A container having an inturned annular bead at the upper edge thereof and a lid having radially spaced locking devices for engaging said inturned bead, said locking devices being demountably secured in said lid.

4. A container having an inturned annular bead at the upper edge thereof and a lid having radially spaced locking devices for engaging said inturned bead, said locking devices being demountably secured in said lid and having screw-threaded bolts for securing said locking devices in said lid.

35 5. A container having an inturned annular bead at the upper edge thereof and a lid having radially spaced locking devices for engaging said inturned bead, said locking devices being demountably secured in said lid, and being releasable exteriorly of said lid.

40 6. A container having an inturned annular bead at the upper edge thereof and a lid having radially spaced locking devices for engaging said inturned bead, said locking devices being demountably secured in said lid, and being releasable exteriorly of said lid, said locking devices having flat shanks, and return bent extensions of said shanks adapted to resiliently lock in place under said inturned bead.

50 7. A container having an annular inturned bead and a lid for said container having locking devices provided with resilient portions adapted to lock under said inturned bead with the frictional attachment of said lid to said container, said locking devices being secured in said lid with threaded bolts, and said bolts having slotted heads disposed exteriorly of said lid.

60 8. A container having an annular inturned bead and a lid for said container having locking devices provided with resilient portions adapted to lock under said inturned bead with the frictional attachment of said lid to said container, said locking devices being secured

in said lid with threaded bolts, said bolts having slotted heads disposed exteriorly of said lid, and nuts for attachment interiorly of said lid.

9. A container having an inturned annular bead at the upper edge thereof and the lid having locking devices for engaging said inturned bead and bolts releasably securing said locking devices to said lid.

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