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C. W. CROSS ET AL

3,236,409

PUSH-IN CAN-END CLOSURE WITH HOLDING MEANS

Filed July 6, 1964

FIG. 1.

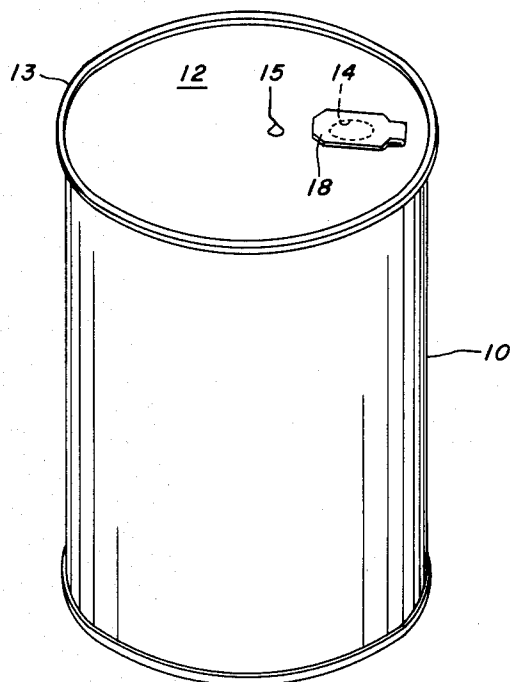


FIG. 2.

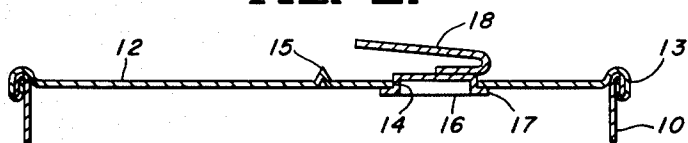
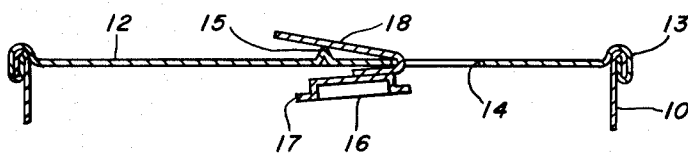


FIG. 3.



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PUSH-IN CAN-END CLOSURE WITH HOLDING MEANS

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1 Claim. (Cl. 220—47)

The invention relates to an improved can-end construc-
tion which facilitates opening the can.

An object of the invention is to provide a can end
which has a push-button closure affixed thereto, whereby
the closure remains on the can after the can is opened.

A more specific object is to provide a can end which
has a pouring opening and a push-button closure received
in said opening, and in which the closure carries a tab
engageable with the end for locking the closure to the can
after the can is opened.

In the drawing:

FIGURE 1 is a perspective view of a can, the end of
which is constructed according to our invention;

FIGURE 2 is a vertical section of the can end before
the can is opened; and

FIGURE 3 is a section similar to FIGURE 2, but
showing the end with the can open.

FIGURE 1 shows a sheet metal can of tinplate or the
like which is conventional apart from our improved end
construction. The can includes a body 10 shown as cylin-
drical and an end member 12 joined to the body around
its periphery with the usual seam 13. The end member
has a pouring opening 14 near one edge and a locking
embossment 15 spaced from the opening near the middle.
A sheet metal plug 16 fits within the opening 14 and pro-
vides a closure. The plug has a circumferential flange
17 which engages the inside face of the end member 12
and is fixed thereto. We affix a U-shaped sheet metal
tab 18 to the outside face of plug 16 after we have in-
serted the plug in the opening.

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To open the can, we first push the tab 18 and plug 16
inwardly. The plug is easily broken loose from the end
member 12, yet the joint has sufficient mechanical
strength to resist accidental opening. Next we push the
plug and tab sideways as FIGURE 3 shows. The outer
arm of the U-shaped tab engages the embossment 15
and locks the plug and tab in a position in which the
pouring opening 14 is uncovered. The tab can have trans-
verse ridges to assist in locking it to the embossment.
Thus we may pour the contents of the can through the
pouring opening without interference from the plug, yet
the plug and tab remain with the can.

While we have shown and described only a single em-
bodiment of the invention, it is apparent that modifica-
tions may arise. Therefore, we do not wish to be limited
to the disclosure set forth but only by the scope of the
appended claim.

We claim:

A can-end construction comprising a sheet metal mem-
ber having inside and outside faces, a seam around its
peripheral edges, a pouring opening spaced from said
seam, and an embossment spaced both from said seam
and from said opening and projecting from the outside
face, a sheet metal plug inserted in said opening and hav-
ing a circumferential flange fixed to the inside face of
said member with a joint which can be broken loose
when the plug is pushed from the outside, and a U-
shaped metal tab fixed to the outside of said plug, said
plug being movable to a position in which said tab en-
gages said embossment for locking the plug in a position
in which the contents of the can may be poured through
said opening.

References Cited by the Examiner

UNITED STATES PATENTS

3,159,304 12/1964 Kolde et al. ----- 220—34

THERON E. CONDON, *Primary Examiner.*