

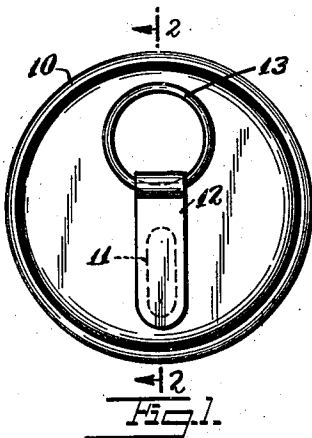
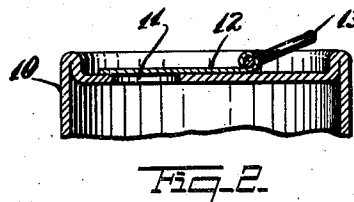
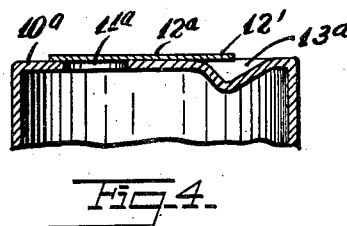
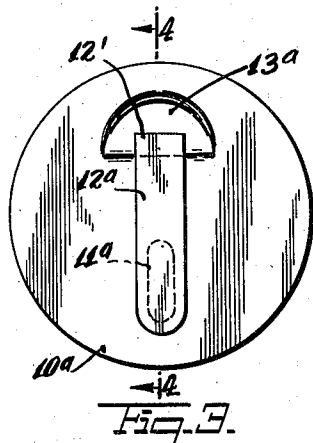
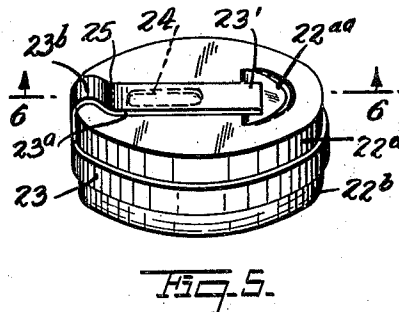
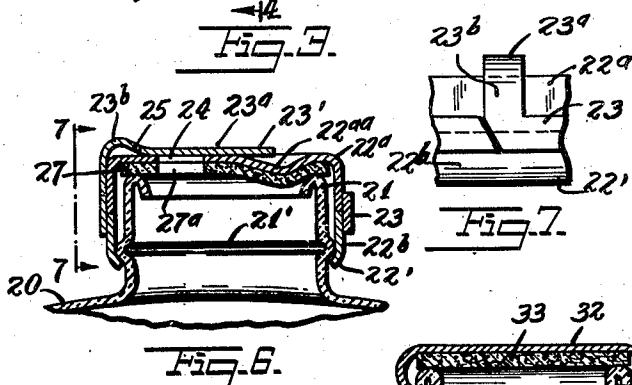
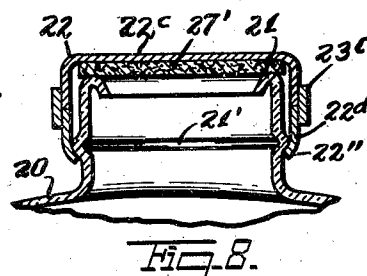
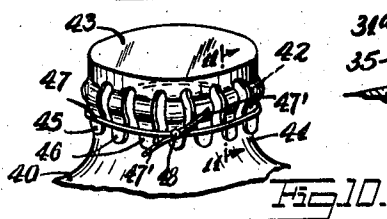
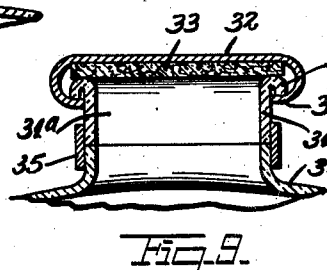
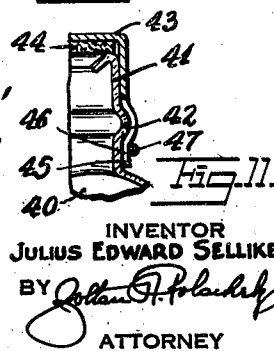
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J. E. SELLIKEN

2,153,344

ATTACHED OPENER FOR CONTAINERS

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INVENTOR
JULIUS EDWARD SELLIKEN
BY *John H. Polach*
ATTORNEY

UNITED STATES PATENT OFFICE

2,153,344

ATTACHED OPENER FOR CONTAINERS

Julius Edward Selliken, Brooklyn, N. Y.

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2 Claims. (Cl. 220—53)

This invention relates to new and useful improvements in an attached opener for containers.

The invention has for an object the construction of an article as mentioned which is characterized by the fact that it is permanently attached and mounted upon a container and adapted to be operated to open the container.

More specifically, the invention contemplates to form the container with an opening and to arrange a strip of material attached over the opening for closing the opening, and to provide an element associated with the strip in a manner so that the strip may be gripped and pulled off to open the container.

The invention has various applications to various types and kinds of containers and systems of closing these containers.

In one form of the invention it is proposed to construct the container with an aperture comprising the opening and to arrange the strip of material over the aperture to close the aperture and secured at its edges to the edges of the material of the aperture. It is contemplated to provide the strip end with a gripping element or to form the material of the strip in such a manner that a portion of the strip projects by which it may be readily gripped. Thus the strip may be removed to expose the aperture and so open the container.

In another form of the invention it is proposed to form the opening of the container by providing the container with adjacent sections which may be separated and to arrange a strip of material upon the edge portions of these sections to hold the sections together and thus to hold the container closed.

In another form of the invention it is proposed to provide a container having one or more different types of openings and closure strips therefor.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a plan view of a container with an attached opener constructed according to this invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a plan view of a container with an attached opener constructed according to a modification of this invention.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is a perspective view of another container provided with another attached opener

constructed according to a still further embodiment of the invention.

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a fragmentary elevational view looking in the direction of the line 7—7 of Fig. 6.

Fig. 8 is a fragmentary transverse sectional view of another type of container constructed with an attached opener according to another modification of the invention.

Fig. 9 is a transverse sectional view of a portion of another container with an attached opener constructed according to this invention.

Fig. 10 is a perspective view of another form of cap attachment.

Fig. 11 is a fragmentary vertical sectional view, taken on the line 11—11 of Fig. 10.

In the form of the invention illustrated in Figs. 1 and 2 there is a container 10 having an opening 11. A strip of material 12 is attached over this opening. There is an element associated with one end of this strip in a manner so that the end may be gripped to pull the strip to open the container. This element in this particular form of the invention comprises a ring 13. It is engaged upon one end of the strip 12 by curling, welding or soldering, etc., an end portion of the strip to or around the side of the ring 13. The strip 12 is secured upon the material of the container around the edge portions of the opening 11 according to known methods of attaching metals together, preferably by tinning, soldering, or a similar operation which will permit the strip 12 to be manually torn off.

In Figs. 3 and 4 a modified form of the invention has been disclosed which distinguishes from the prior form merely in the construction of the element which is associated with the end of the strip. According to this form of the invention there is a container 10^a formed with an opening 11^a over which a strip of material 12^a is attached. This strip of material 12^a is attached, and has a free end 12'. The element associated with this free end comprises a depressed or recessed portion 13^a formed in the material of the container 10 beneath the end 12' which permits the end to be manually gripped. Then the strip may be readily pulled off to open the container. This strip 12' may be either of pliable or rigid substance which permits its rolling or lifting, respectively.

In the form of the invention illustrated in Figs. 5-7 inclusive there is a container 20 formed with a neck portion 21 which is closed by a cap consisting of a head portion 22^a and a base portion 22^b. These sections of the cap are placed adjacent each other and held together as a unit by a strip of material 23 which is attached thereon. The bottom edge 22' of the base portion 22^b is bent beneath the head portion 21' of the con-

tainer to hold the cap in position. This strip of material extends completely around the cap and at one area connects with a transversely extending portion 23^a which extends over the top of the cap. At the top the cap is formed with an opening 24 over which a portion of the strip 23^a is attached. The free end 23^b of this strip extends over a recessed portion 22^{aa} formed in the cap. There is a transverse line of perforations or score line 25 between the attached portion 23^a and the base portion 23^b of the strip 23^a.

The cap is provided with a washer 27 of cork or other suitable material, which is also formed with an opening 27^a aligned with the opening 24. The cap is mounted on the neck of the container by having its edges 22^b bent beneath a rib portion 21^b formed in the neck of the container.

The operation of the device is as follows:

The end 23^b may be gripped and the strip 23^a torn open to open the openings 24 and 27^a. The container may thus be used. The end of the strip portion may be detached along the perforations or score line 25. If it is desired the remaining strip portion 23^b may be pulled downwards to tear off the strip 23. When the strip 23 is torn off from the cap, the sections of the cap are separated. The upper portion 22^a of the cap may now be removed and the container is opened to a larger degree than heretofore. This arrangement prevents the reuse of the container.

In Fig. 8 another modified form of the invention has been disclosed which comprises a container 20 having a neck 21 with a bead portion 21^b. A cap 22 is mounted on the neck of the container. This cap has a top portion 22^c and a bottom portion 22^d with its bottom edge 22^b bent beneath the bead portion 21^b to hold the cap in position. There is a cork washer, or other suitable material washer 27^b within the cap 22. A strip of material 23^c is attached upon the cap on the adjacent edges of the cap sections to hold the sections together as a unit. This strip may be manually removed when desired to open the cap section.

In Fig. 9 another modified form of the invention has been disclosed which is shown applied to a container 30 having a neck portion 31. There is a cap 32 having a cork or similar washer 33 closing the neck portion. The edges 32^b of the cap are bent beneath a bead portion 31^b of the neck to hold the cap in position. In this form of the invention the neck 31 has a separate section 31^a which is held to the base section of the neck by a strip of material 35 attached upon adjacent edge portions of the base portion of the neck and the removable section 31^a. This strip 35 may be torn off to remove the outer section 31^a of the neck and thus the container is opened.

In Figs. 10 and 11 another modified form of the invention has been disclosed which comprises a container 40 having a neck portion 41 which is formed with a bead portion 42. There is a cap 43 having a cork or similar washer 44 closing the neck portion. The edges 45 of the cap are bent beneath the bead portion 42 and are formed with serrations 46. A binding wire 47 is provided for securing the cap on the neck of the container below the bead portion 42. This wire is joined at 48 by soldering, welding, or any other suitable manner, spaced from the free ends 47^b. These free ends may be used to grip the wire

for the purpose of breaking the joined portion 48 and for freeing the cap 43 from the neck of the container.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. In combination with a container having a cylindrical neck opening and an outwardly extending circumferential ridge formed on said neck opening, a cap for closing said neck opening, comprising a top portion for extending across the open end of said cylindrical neck opening and having an opening, a downwardly extending tubular skirt portion continuing from the periphery of said top portion and encasing the top end of said cylindrical neck opening and having its bottom edge portion clamped around said ridge to prevent axial movement of said cap with relation to said neck, said skirt portion being formed of separate sections having their adjacent edge portions arranged one above the other in edge alignment, a strip of material securely attached over the adjacent edge portions of said sections for holding said sections together to close said neck opening, and an element extending at right angles from one end of said strip and being substantially L-shaped with one arm extending longitudinally upward along said skirt portion with the other arm extending radially inward over said top portion and across said opening and being securely attached to the material around said opening for closing the same.

2. In combination with a container having a cylindrical neck opening and an outwardly extending circumferential ridge formed on said neck opening, a cap for closing said neck opening, comprising a top portion for extending across the open end of said cylindrical neck opening and having an opening, a downwardly extending tubular skirt portion continuing from the periphery of said top portion and encasing the top end of said cylindrical neck opening and having its bottom edge portion clamped around said ridge to prevent axial movement of said cap with relation to said neck, said skirt portion being formed of separate sections having their adjacent edge portions arranged one above the other in edge alignment, a strip of material securely attached over the adjacent edge portions of said sections for holding said sections together to close said neck opening, and an element extending at right angles from one end of said strip and being substantially L-shaped with one arm extending longitudinally upward along said skirt portion with the other arm extending radially inward over said top portion and across said opening and being securely attached to the material around said opening for closing the same, said element being adapted to have a portion torn from said cap for exposing said opening and when desired the remainder may be torn so that said strip may be removed to permit said sections to be separated for entirely opening said container.

JULIUS EDWARD SELLIKEN.