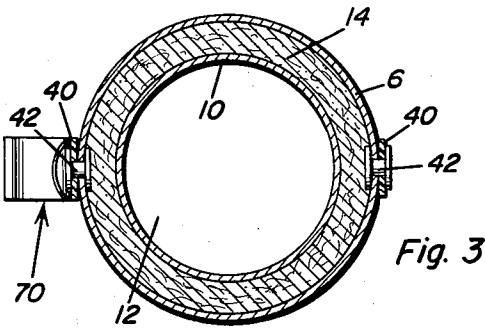
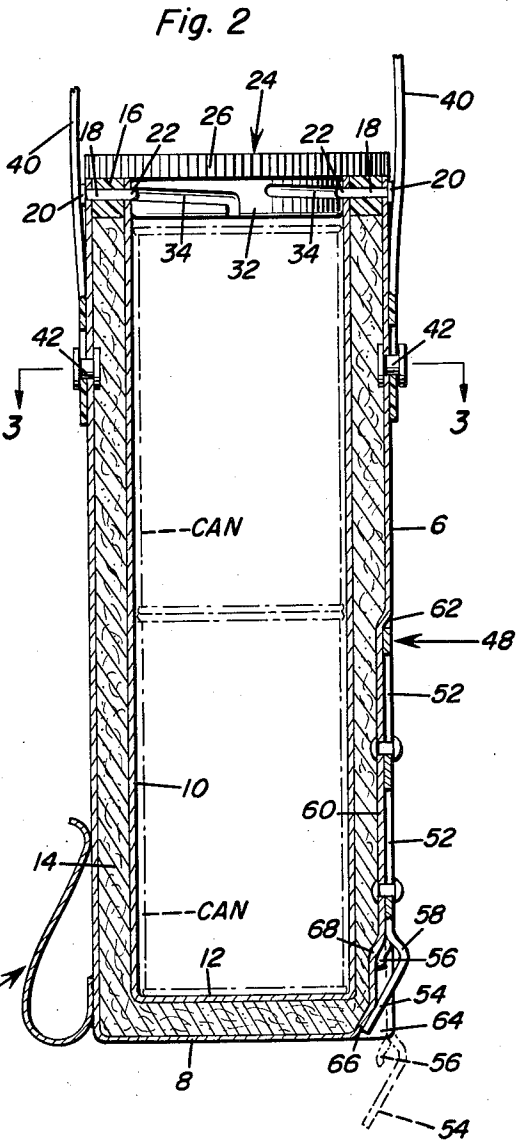
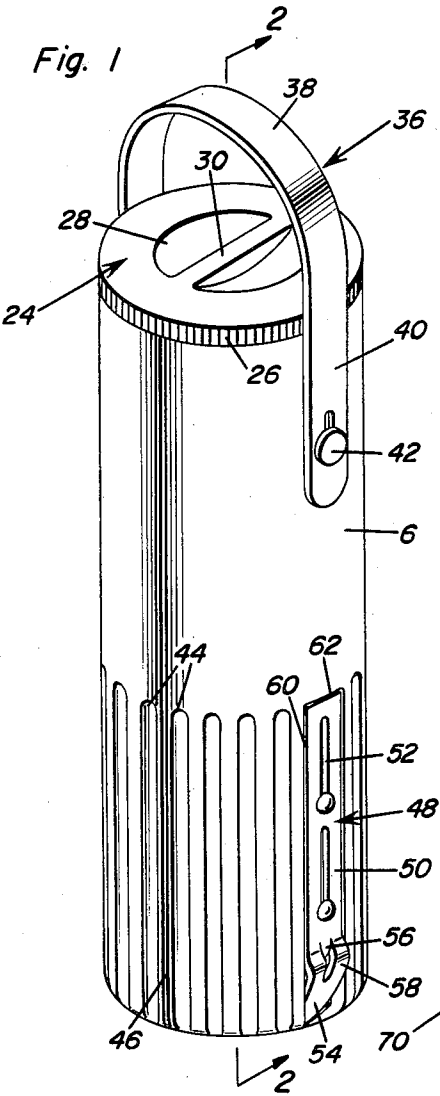


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P. L. WALTERS
INSULATED CONTAINER
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INSULATED CONTAINER

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The present invention relates to certain new and useful improvements in a portable canteen-like insulated container, with or without a carrying strap or handle, and which is such in construction that it may be satisfactorily and effectually utilized in many and varying ways.

Insulated containers in the category herein under consideration are often classified as vacuum and thermal-type bottles, jugs, canteens and the like. The instant container, being portable, provided with a carrying handle for bail, may be properly comprehended as belonging to the group referred to in that, it too, provides an efficient sanitary container construction which is substantially leak-proof, easy to open and close, virtually indestructible and constitutes an ideal container for practical utilization when on a picnic, while camping, hunting, traveling and which is ideal for school children when used for reception of hot lunches, soups, milk and so on.

Stated somewhat more generally, this container may be aptly appropriated for use by anyone desiring to conveniently carry hot and cold liquids and similar commodities without fear or loss by leakage or breakage.

Briefly summarized the novel container embodies an inside container providing a commodity receptacle and closed at its bottom and open at its top, an outside jacket encasing and spaced from said container and likewise having a closed bottom and open top, the space between the container and jacket being packed with insulation material, the upper open ends of said jacket and container being coplanar and therefore flush with each other, a packing ring sandwiched between the upper end portions of the container and jacket, said ring resting atop an underlying upper portion of said packing material and the top of the ring being flush with the upper ends of the container and jacket.

In carrying out a preferred embodiment of the invention the container and also the jacket may be constructed from sheet material such as thin but sturdy aluminum, commercial plastics of a selected grade and color, the lower portion of the outside jacket being fluted or otherwise ornamentally constructed for rigidity.

The construction also features a readily applicable and removable cover or lid having a depending central plug-like portion which telescopes into the upper open end of the inside container and which is marginally provided with suitably arranged bayonet slots or equivalent "threads." Studs are caused to pierce the upper open end portions of the jacket and container and the intervening endless annular packing ring. The inner ends of the studs are provided with heads which constitute keys and cooperate retentively with the bayonet slots. The edge portion of the lid or cover has a flange which simultaneously overlies the upper edge portions of the container, jacket and intervening packing ring.

By using sheet material which is susceptible of being formed, an indented longitudinal groove is provided in the bottom portion of the shell-like outer jacket and this groove is so arranged and designed, especially in the bottom portion thereof, that it functions as a novel sheath for a bar-like member which is slidably keyed therein. More particularly, the bar-like member takes the form of a beer can punch the shank of which is slotted and keyed in the groove, the outer open end portion of the groove, that is, the bottom thereof, having properly angled or slanted component portions constituting abutments. These abutments cooperate with the correspond-

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ingly angled or slanted punch-blade and hook detent to provide a snap-in action and this construction allows the blade and hook-like detent to be projected when desired for use.

Other objects, features and advantages will become more readily apparent from the following description and the accompanying illustrative drawing.

In the drawing, wherein like numerals are employed to designate like parts throughout the views:

FIG. 1 is a view in perspective of the improved insulated container constructed in accordance with the present invention;

FIG. 2 is a section on the central vertical line 2-2 of FIG. 1; and

FIG. 3 is a cross-section on the horizontal line 3-3 of FIG. 2.

The aforementioned outside shell or jacket is denoted by the numeral 6 and may be constructed from thin-wall aluminum or moldable commercial plastics. This shell or jacket is of vertically elongated form and has a closed bottom 8 and is open at the top as seen in FIG. 2. The jacket is similar in shape and proportions to the inside container 10, which is likewise constructed from aluminum or plastics. The jacket obviously encases the container and the container has a flat bottom 12 and is open at the top. The proportions of parts are such that the upper edge portions are coplanar or flush with each other. These parts are spaced and the intervening space is charged with an appropriate filler 14 of insulation material. The upper portion of the insulation material terminates down from the edges of the jacket and container and an endless plastic or equivalent packing ring 16 is fitted into this space. The packing ring has its upper edge flush with the upper ends of the container and jacket. Headed or equivalent fasteners or rivets may be employed. These are sometimes referred to as studs and it will be noticed that each stud 18 pierces the several parts 6, 10 and 16 with the heads 20 exteriorly located. The inner protruding ends are formed with ball-like or equivalent terminals or heads 22 which constitute keying and retaining elements for the applicable and removable lid or cover 24. It may be mentioned here, before continuing that the size and cross-section of the components described may vary in practice. In the instant showing the jacket and container are each circular in cross-section. It follows that the cover or lid 24 is circular or disk-like in plan. This cover has a knurled marginal flange 26 which bridges the upper edges of the container and jacket and also the upper edge of the packing ring 16 as brought out in FIG. 2. If desired, the top may be provided with a shallow recess 28 and a suitable finger-grip 30. The main or body portion is fashioned into a depending circular plug 32 which telescopes into the upper end of the container. This is provided marginally or peripherally with bayonet slots or "threads" 34 into which the headed ends 22 project and provide the desired keying or threading means for the cover. It has been found that this simple and practical construction and arrangement of features not only provides a construction which will appeal to the manufacturer but also provides a liquid-tight closure for the over-all container.

The bail-like handle or strap 36, of suitable material, has a bight or gripping portion 38 and arms or limbs 40 suitably slotted and removably anchored on headed rivets 42 provided therefor as shown in FIG. 2.

As previously mentioned, the jacket 6 may be suitably decorated and reinforced. For instance, as seen in FIG. 1 the lower portion is fluted as at 44 thus providing reinforcing ribs 46.

On one side and also at the bottom the jacket is constructed to provide a holder and also a handle for a projectible and retractible implement. More specifically,

the implement shown comprises a beer can punch 48. The bar or handle portion 50 thereof is provided with slots 52. The projectible and retractible outer end is provided with the customary oblique angled V-shaped or V-pointed punch member 54, an inwardly offset hook-like detent 56 and a hump 58, provided by a bent portion, and which may be used as a means of projecting and retracting the punch as herein shown and mounted. To accommodate the punch in its out-of-the-way or retracted position the shell or jacket is indented to provide a lengthwise guide keyway or groove 60. The groove also functions as a sheath in that the punch is sheathed therein when it is retracted as shown in full lines. The upper or inner end of this indented groove provides a check or stop shoulder 62. The depth of the groove is such that the implement or can punch 48 is sheathed flush in the groove. The open lower or bottom end of this groove is of special design. That is to say, the bottom is progressively or gradually deepened as shown in FIG. 2. At the lowermost and deepest end 64 the bottom has an oblique angled abutment or rest 66 for the correspondingly angled punch 54. The second oblique angle or slanting bent portion 68 provides a suitable abutment for the hook-like detent 56. Since the components 54 and 56 are slightly yieldable in character and the metal of the shell is springy aluminum or plastic material the retentive action may be thought of as a snap-action. In other words, the beer can punch 48 can be snapped into its retracted or out-of-the-way position or readily pushed out for can punching needs as shown in dotted lines in FIG. 2.

In connection with this snap-action projectible and retractible feature it may be explained that it is being referred to here in different ways as a slidingly keyed implement or bar and also as a punch. It is within the purview of the concept to utilize a similar arrangement and construction to that shown by using it as a means for attaching a hand-grip or some other mechanical part (not shown). In other words, the use of the indented channel or groove and the rivets therein makes it possible to attach any bar-like member forming a part of a handle, a clamp, a clip or the like.

In actual practice a J-shaped spring clip 70 may be provided as shown, for example, in FIG. 2. This may be a plastic or metal clip sufficiently strong and springy to attach firmly to the upper lip or edge of a golf bag. By inverting the holder and clipping it upside-down over the rim at the mouth of the golf bag, then unscrewing the lid or cover 24, the bottommost can may gravitate for use. Actually, the clip is larger than, but similar to, a pencil or pen pocket clip.

Since the construction and arrangement of component parts is herein clearly presented by way of the drawing and the accompanying specification and claims, a specific description of the mode of use or operation is believed to be unnecessary.

Minor changes in shape, size, materials, and rearrangement of component parts may be resorted to in actual practice without departing from the spirit of the invention or the scope of the invention as claimed.

What is claimed as new is as follows:

1. For use in temporarily storing and carrying and otherwise handling hot and cold commodities for ready use; a portable container comprising an inside container providing a commodity receptacle and closed at its bottom and open at its top, said receptacle having a cylindrical side wall, an outside jacket encasing and spaced from said container and likewise having a closed bottom and open top, the space between the container and jacket being packed with insulation material, the upper open ends of said jacket and container being coplanar and therefore flush with each other, a packing ring sandwiched between the upper end portions of the container and jacket, said ring resting atop an underlying upper portion of said packing material and the top of the ring

being flush with the upper ends of the container and jacket, said jacket being constructed from sheet material and being provided on one side portion thereof with a lengthwise indentation projecting inwardly into the space between the jacket and the container without interfering with the cylindrical contour of the receptacle provided by said container, said indentation providing a vertical channel-like groove at the outside of the jacket, said groove being closed at its upper end and providing a stop shoulder and opening at its lower end through the bottom of the jacket, and a projectible and retractible blade-like member slidingly keyed in said groove, said groove providing a guide, said blade-like member being operable within the confines of said groove, and one end being extendable beyond the bottom of the jacket, the lower extendable end of said blade-like member being formed into and providing a can opening punch, the latter including an oblique angled V-pointed can penetrating blade pitched and angled toward the bottom of the groove and a hook-like oblique angled can engaging detent at the inner end of the blade, and the cooperating surface portions of the bottom of said groove being progressively deepened and slanted to provide abutments against which the correspondingly slanted blade and detent yieldingly and frictionally rest when not in use, thus providing snap-action retention for the blade as an entity.

2. For use in temporarily storing and carrying and otherwise handling hot and cold commodities for ready use; a portable container comprising an inside container providing a commodity receptacle and closed at its bottom and open at its top, said receptacle having a cylindrical side wall, an outside jacket encasing and spaced from said container and likewise having a closed bottom and open top, the space between the container and jacket being packed with insulating material, the upper open ends of said jacket and container being coplanar and therefore flush with each other, a packing ring sandwiched between the upper end portions of the container and jacket, said ring resting atop an underlying upper portion of said packing material and the top of the ring being flush with the upper ends of the container and jacket, said jacket being constructed from sheet material and being provided on one side portion thereof with a lengthwise indentation projecting inwardly into the space between the jacket and the container without interfering with the cylindrical contour of the receptacle provided by said container, said indentation providing a channel-like groove at the outside of the jacket, said groove being closed at one end, open at the other end and the bottom thereof having headed rivets, a beer can punch having a slotted shank operatively connected with the rivets and slidingly mounted in said groove, said punch having cooperating oblique angled punch and hook components at the other end, the coacting bottom portions of said groove adjacent the open end of the groove having inner and outer oblique angled surfaces defining abutments, the latter progressively slanted so that they conformingly yieldingly and frictionally cooperate with their respectively coacting punch and hook components and serve to retain the punch in a retracted out-of-use position but allow the punch and hook components to be slid wholly out through the adjacent open end of the groove for unrestricted use.

3. A can container comprising a wall having an external groove therein open at one end, a can opener slidable in the groove and projectable through the open end thereof to an operative position beyond the container, means for slidably securing the opener in the groove, and means for securing the opener in retracted position in the groove, the first-named means including rivets mounted at spaced points in the groove, said opener comprising a bar operable in the groove and having longitudinal slots therein slidably receiving said rivets and further comprising a blade-like can punch on one end of said bar, the last-named means including an abutment in the bottom of the groove, said opener still further comprising a hook-

like detent engageable with the abutment for frictional retention thereby.

4. A container in accordance with claim 3, said last-named means further including another abutment in said bottom of said groove at said open end thereof and engageable by said punch.

References Cited in the file of this patent

UNITED STATES PATENTS

848,674	Mosler	Apr. 2, 1907	10	5,095
1,044,757	Decker et al.	Nov. 19, 1912		183,300
				8,072
				489,778

Schwark	Oct. 2, 1951
Fried	Apr. 30, 1957
Polazzolo	Oct. 1, 1957
Sommerfeld	Jan. 7, 1958
Hosford	Mar. 25, 1958

FOREIGN PATENTS

Great Britain	Jan. 22, 1898
Great Britain	July 27, 1922
Australia	July 4, 1932
Great Britain	Aug. 4, 1939