Dec. 7, 1954 R. I. FELVER 2,696,332

TEAKETTLE HANDLE AND CAP

Filed Aug. 1, 1952

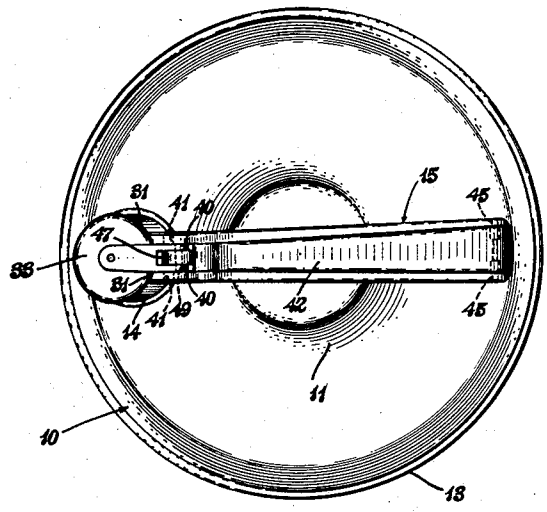


Fig. 1

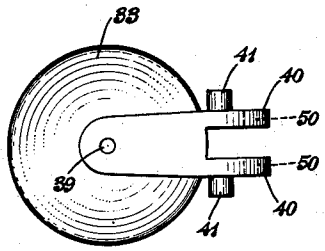


Fig. 4

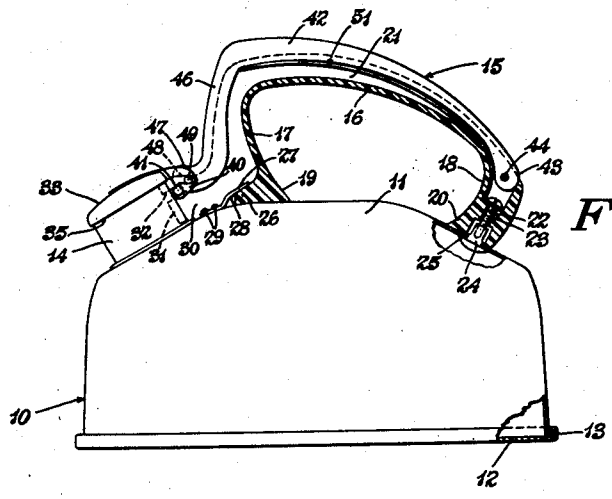


Fig. 2

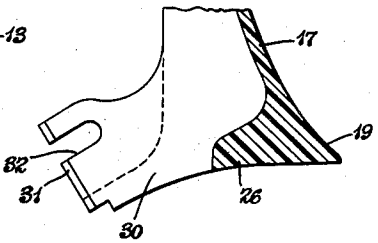
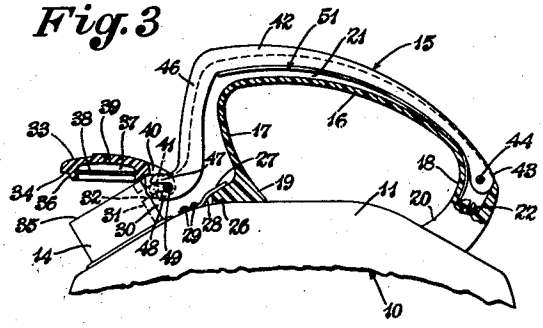


Fig. 5

Fig. 3



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TEAKETTLE HANDLE AND CAP

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6 Claims. (Cl. 222—473)

The invention relates to teakettles and more particularly to the type of teakettle in which the spout is provided with a closure or cap adapted to be operated by means upon the teakettle handle for opening the closure.

An object of the invention is to provide a teakettle having a handle of novel and attractive design, a spout closure or cap, and novel means associated with the handle for opening and closing the cap or closure.

Another object is to provide such a teakettle in which the closure operating means consists of a minimum number of readily accessible parts.

Still another object is to provide such a teakettle in which the closure operating means is operated by closing or squeezing pressure of the hand grasping the teakettle handle.

A further object is to provide a teakettle of the character referred to which is of simple and inexpensive construction, and easy to assemble and operate.

The above objects together with others which are apparent from the drawing and following description, or which may be later referred to, may be attained by constructing the improved teakettle handle and cap in the manner hereinafter described in detail and illustrated in the accompanying drawing, in which:

Fig. 1 is a top plan view of a teakettle embodying the invention;

Fig. 2 a side elevation of the teakettle with the cap or closure in the lowered or closed position, parts being broken away for the purpose of illustration;

Fig. 3 a fragmentary view similar to Fig. 2, showing the spout closure or cap in open position;

Fig. 4 a detached, top plan view of the spout closure or cap; and,

Fig. 5 a detached, fragmentary, sectional elevation of the forward end of the handle.

Referring now more particularly to the embodiment of the invention illustrated, in which similar numerals refer to similar parts throughout, the teakettle comprises a container wihch may be formed of any suitable material, preferably sheet aluminum, and includes generally the cylindrical body portion **10** and integral, domed top **11**, a flat bottom wall **12**, also preferably formed of sheet aluminum, being seamed, welded or otherwise secured to the lower edge of the body portion **10**, as indicated at **13**.

It should be understood that the shape, design and details of construction of the teakettle per se are not important, the invention being primarily concerned with the novel features of the handle, spout closure or cap and operating means therefor, as illustrated in the drawing and later described in detail.

The top **11** of the teakettle is provided with an upstanding, slightly angularly disposed, pouring and filling spout **14**, which is formed integrally with the body of the teakettle.

A handle generally indicated at **15**, preferably molded in one piece from a suitable plastic material, is secured to the top of the teakettle for manipulating the same. This handle is provided with the central, slightly curved portion **16**, shaped to conform with, or generally follow, the contour of the top of the kettle and is provided at opposite ends with the forward and rear legs **17** and **18**, terminating in the feet **19** and **20** respectively, for connection to the top of the kettle, as will be later described.

Throughout the greater portion of its length the handle **15** is of channel cross sectional shape, as indicated

at **21**, the channel being open upwardly and outwardly.

The rear foot **20** of the handle is secured to the top of the teakettle by means of a screw **22**, located through the opening **23** in the foot, and the stake nut **24** located through a suitable opening **25** in the top of the kettle.

The forward foot **19** of the handle is provided with the forwardly extending toe **26**, secured to the top of the teakettle by the angular flange **27** of the attaching clip **28** which is secured to the top of the kettle as by the rivets **29** or their equivalents.

At the forward end of the handle, the spaced channel extension flanges **30** are provided, the lower edges thereof following the contour of the top of the kettle, these extensions being of substantially the same height as the spout **14** and their forward edges being bevelled or curved as at **31** to fit against the sides of the spout.

A slot **32** is formed in the forward edge of each channel extension **30**, these slots providing bearings for the journals of the spout closure or cap as will be later described.

The spout closure or cap **33** is preferably molded in one piece from plastic, similar to that from which the handle is made, and is provided with a peripheral flange **34** adapted to fit upon the upper edge **35** of the spout and preferably terminates downwardly in the conical flange **36** adapted to fit within the upper open end of the spout to tightly close the same.

This cap may be hollow, as indicated at **37**, to receive any suitable and well known type of whistle or the like, as indicated at **38**, adapted to operate in usual manner to whistle when the water within the teakettle reaches the boiling point. A central opening **39** is formed in the top of the cap to release steam pressure within the kettle.

A spaced pair of integral ears **40** extend rearwardly from the closure or cap **33** and depend downwardly therefrom. Outwardly disposed trunnions **41** are formed integrally upon the ears **40** and are received within the open slots **32** in the extensions **30** of the handle, forming a fulcrum or hinge joint for the cap.

A closure operator is provided in the form of a lever **42**, preferably molded in one piece from a plastic similar to that from which the handle and cap are formed. This lever is preferably forwardly tapered, so as to fit within the forwardly tapered channel of the handle, and is otherwise curved or shaped to conform to the contour of the handle.

The rear end of the lever **42** is preferably enlarged as at **43** to receive the pivot pin **44** which is located through the apertures **45** in the channel flanges of the handle. A downwardly curved leg **46** is integrally formed at the forward end of the lever **42**, being curved or shaped to conform to the forward leg **17** of the handle, and this leg terminates in the forwardly directed foot **47** received between the ears **40** of the closure or cap and provided with the forwardly open slot **48** which receives the pin **49** secured in the openings **50** of the ears **40**.

Suitable spring means, indicated generally at **51**, which may be either a coil spring, leaf spring or the like, is interposed between the handle **15** and the lever **42** for normally holding the lever in raised position as shown in Fig. 2, so as to maintain the closure or cap **33** in lowered or closed position upon the spout **14**.

The teakettle as illustrated and above described is of attractive appearance, simple, compact and inexpensive in design and construction and adapted for the heating of water, and easily operated for opening and closing the spout closure or cap.

The desired amount of water may be introduced through the spout and dispensed therefrom when the closure operating means is manipulated to raise or open the cap or closure. This is accomplished by grasping the handle in one hand in normal manner, to pick up the kettle, and by further closing or squeezing of the hand upon the handle the lever **42** is depressed, compressing the spring **51** and lowering the foot **47** of the lever **42**.

This causes the closure or cap **33** to be rocked upon the pivot **41** to the open position shown in Fig. 3, so that water may be introduced or dispensed through the

spout **14**. Upon release of pressure upon the lever **42** the combined weight of the cap **33** and tension of the spring **51** will immediately return to closed position.

In the foregoing description, certain terms have been used for brevity, clearness and understanding, but no unnecessary limitations are to be implied therefrom beyond the requirements of the prior art, because such words are used for descriptive purposes herein and are intended to be broadly construed.

Moreover, the embodiments of the improved construction illustrated and described herein are by way of example, and the scope of the present invention is not limited to the exact details of construction.

Having now described the invention or discovery, the construction, the operation, and use of preferred embodiments thereof, and the advantageous new and useful results obtained thereby; the new and useful constructions, and reasonable mechanical equivalents thereof obvious to those skilled in the art, are set forth in the appended claims.

I claim:

1. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle secured to said container, a rearward extension upon the closure, means pivoting said rearward extension upon the handle, a pin mounted on said rearward extension, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle, means pivoting the rear end of the lever to the rear end of the handle, and a slot in the forward end of the lever, said slot receiving the pin upon said rearward extension, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

2. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle secured to said container, a rearward extension upon the closure, means pivoting said rearward extension upon the handle, a pin mounted on said rearward extension, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle, means pivoting the rear end of the lever to the handle, a spring interposed between the rear end of the handle and the lever, and a slot in the forward end of the lever, said slot receiving the pin upon said rearward extension, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

3. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle secured to said container, a spaced pair of rearwardly extending ears upon the closure, means pivoting said ears upon the handle, a pin mounted on said ears, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle, means pivoting the rear end of the lever to the rear end of the handle a leaf spring located between the handle and the lever and connected at its rear end to the handle, and a slot in the forward end of the lever, said slot receiving the pin upon said ears, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

4. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle secured to said container, said handle being of channel cross-section, extension flanges at the forward end of the handle and having slots therein, a spaced pair of rearwardly extending ears upon the closure, trunnions upon said ears received in said slots, a pin having its ends mounted in said ears, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle located partially in the channel of the handle a leaf spring located between the handle and the lever and connected at its rear end to the handle, means pivoting the rear end of the lever in the rear end of the handle, and a forwardly disposed foot on the front end of the lever and received between said ears, there being a slot in said foot receiving said pin, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

5. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle having depending front and rear legs secured to the container, said handle being of channel cross-section, extension flanges at the forward end of the handle and having slots therein, a spaced pair of rearwardly extending ears upon the closure, trunnions upon said ears received in said slots, a pin having its ends mounted in said ears, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle located partially in the channel of the handle a leaf spring located between the handle and the lever and connected at its rear end to the handle, means pivoting the rear end of the lever in the rear end of the handle, a depending leg at the forward end of the lever, and a forwardly disposed foot upon said leg, said foot being received between said ears and having a slot therein receiving said pin, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

6. A teakettle comprising a container having a body portion and a closed top, a spout extending from said container, a closure for said spout, a handle secured to said container, said handle being of channel cross-section, a rearward extension upon the closure, means pivoting said rearward extension upon the handle, a pin mounted on said rearward extension, and means for raising said closure, said means comprising a lever of substantially the same length as the handle and located on top of the handle, means mounting the lever for substantially vertical movement in the channel of the handle, there being a slot in the forward end of the lever, said slot receiving said pin upon the rearward extension, and spring means for normally urging the lever upward, said lever being so positioned that it is adapted to be depressed by the hand which grasps said handle.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
2,590,596	Ziskin et al.	Mar. 25, 1952
2,620,948	Ziskin et al.	Dec. 9, 1952