

Sept. 9, 1952

S. S. BLUMSON
COMBINED CLOSURE CAP FOR CLOSING THE
OUTLET SPOUT AND KEY FOR OPENING THE
FILLING PLUG OF A LIQUID CONTAINER
Filed April 20, 1948

2,609,970

FIG. 1.

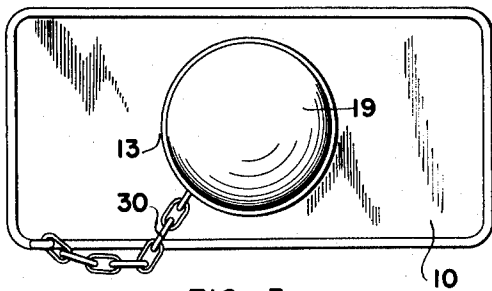


FIG. 3.

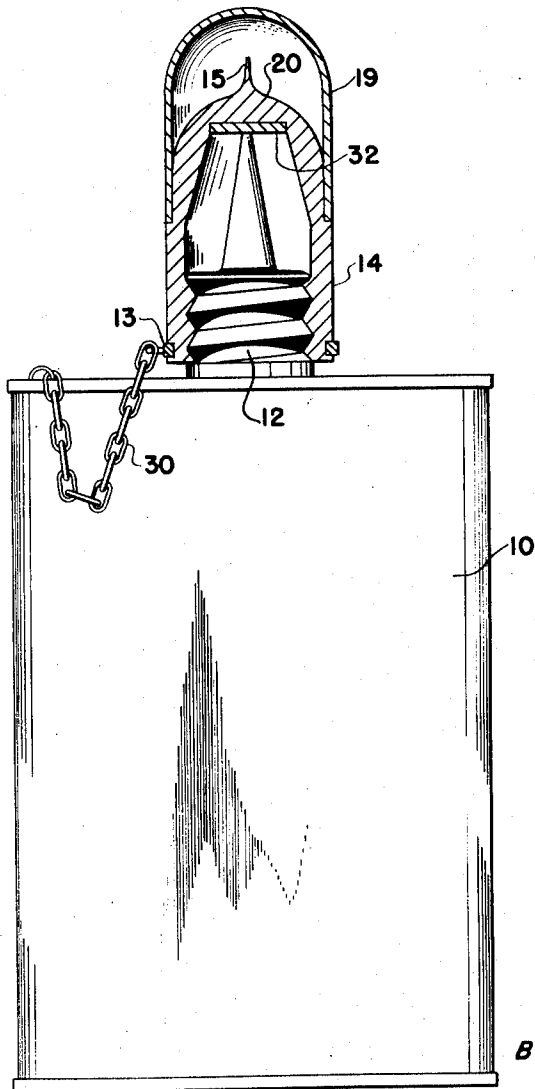
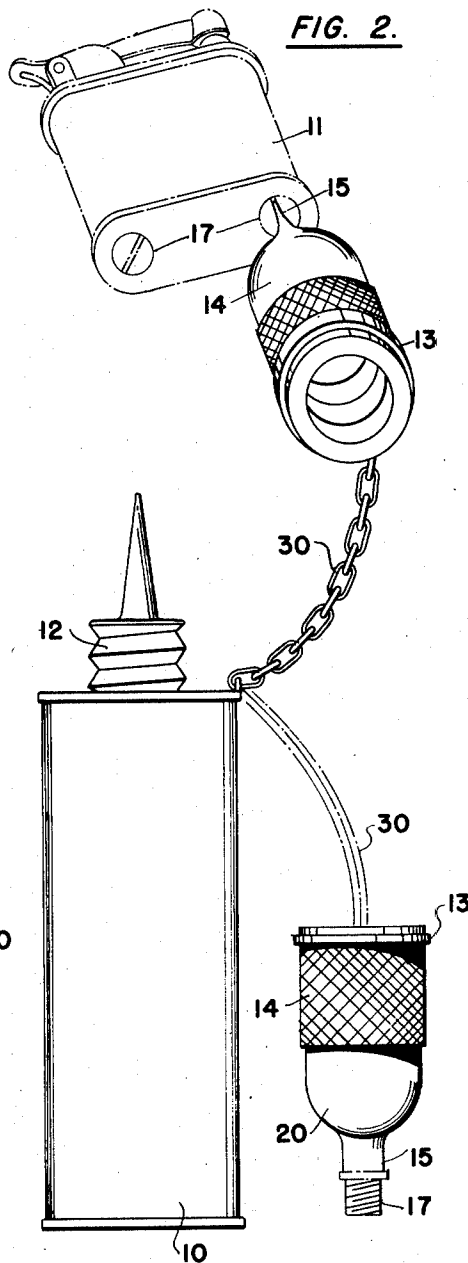


FIG. 2.



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2,609,970

COMBINED CLOSURE CAP FOR CLOSING
THE OUTLET SPOUT AND KEY FOR OPEN-
ING THE FILLING PLUG OF A LIQUID
CONTAINER

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Application April 20, 1948, Serial No. 22,197

1 Claim. (Cl. 222—192)

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This invention pertains to flint ignited cigar or cigarette lighters of conventional forms. These lighters are preferably made relatively small so they can fit conveniently into the user's pocket and be readily available for use in lighting cigars or other objects that require a small active flame to ignite them. These lighters usually have a projecting lighting wick immersed inside the fuel reservoir of the lighter for the greater part of its length, so as to soak up the fuel and by capillary action transmit it to the projecting end. This projecting end is ignited by a pyrophoric disposed adjacent the wick, through the use of a mechanical striker. The projecting wick end passes through a tubular stem, over which a cap is placed during the non-use of the lighter, to prevent evaporation of the liquid fuel. The fuel liquid is poured in through an opening having a flush screw closure, at the bottom of the lighter reservoir, when the latter is being filled. This invention pertains particularly to the form of cap to be used over the stem of the liquid fuel can, and its added feature of forming a key or tool on the end of the cap of the fuel can for the removal of the screw closure in the bottom of the lighter.

The invention includes amongst its objects to provide a new and improved form of cap for use in closing the stem of a can of lighter fluid that will avoid one or more of the disadvantages and limitations of the prior art.

Another object of the present invention is to provide a new and improved form of a cap for use on lighter fluid cans that will be available for use as a tool for the removal of the liquid fuel-orifice closure of the lighter.

A further object of the invention is to provide a new and improved form of cap for a lighter fluid can that will be so attached to the lighter as to be less liable to loss therefrom.

Other objects will become apparent as the details of the invention are further set forth.

For a better understanding of the invention and its objects, reference is made to the appended drawings and the description following herein. These drawings and description portray a particular form of the invention by way of example and indicate the principles on which it is based. While the claim included therewith particularly emphasizes the scope of the invention.

The drawings include:

Figure 1 is a plan view of a lighter fluid can, embodying this invention;

Figure 2, is a side elevation of Figure 1 showing the lighter can with its cap and protector shown in section to show its inner construction; and

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Figure 3, is an end elevation showing the manner in which the cap is used as a tool for removing the filling orifice closure of a lighting device.

Similar reference characters refer to similar parts throughout the drawings.

In the particular lighter fluid can shown in the drawings, a casing 10 forms a container for the liquid fuel, used in supplying lighting fluid to the lighter 11. The stem 12 is exteriorly screw threaded in a conventional manner, to receive and hold an interiorly screw threaded cap 14. This cap 14 is preferably of magnetic material and is attached to the casing 10, so it will have a strong tendency to adhere to it. A screw driver tip or tool or key 15 is provided on the cap and extends above it as shown in Figure 1. The screw driver tip or tool or key is arranged to fit into the slot 16 of a countersunk screw or closure head 17 used as a closure to the filling orifice of the lighter. This orifice and closure is usually located at the bottom of the lighter casing 11.

The countersunk screw 17, like the cap 14, is made of material having magnetic characteristics. The lighter is of conventional design and is so commonly known and distributed throughout commerce that it is not believed to require further description in this specification. A protector 19 consisting of a hollow cap-like structure of plastic or other suitable material, is slipped over the cap 14, on which it fits frictionally, and covers the latter and its screw driver tip or tool 15. It may be readily removed. It provides an attractive appearance to the cap portion of the casing 10. The main purpose of the cover or protector however is to prevent the screw driver tip from tearing the user's pockets, or injuring him in other ways. The cap 14 is fitted with a ring 13 which allows the cap to turn and is connected by a chain 30.

In the use of the device, particularly in the process of filling the liquid fuel reservoir in the lighter 11 through the orifice, the operator removes the protector 19 and unscrews the cap 14 from the stem 12 and removes it, with his hand by twisting on the tip 15. Then he applies the screw driver tip 15 to the slot 16 of the screw 17. The turning of the tip 15, as the cap 14 is rotated, loosens the screw closure 17 and removes it from the bottom of the lighter 11. As the tip 15 is magnetic and the screw 17 of similar material, it adheres to the latter on removal, by the attraction of each to the other. This prevents the screw from being lost, which frequently happens in the use of the ordinary lighter. The operator removes the screw 17 by hand through

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the aid of the cap 14 and after the liquid fuel has been poured in, replaces it in the orifice. The cap 14 is provided with a washer 32 to allow it to seal tightly on stem 12. Then the cap 14 is replaced on the stem 12, and the protector 19 repositioned over it.

It should be noted, that the cap 14 is closed in at its top 20 to make its closing effect complete, and from this top, the screw driver tip or tool 15 projects in an integral manner. There are several ways in which the tip 15 could be attached during manufacture, but whatever is chosen in preference, requires that it be sufficiently strong to withstand the stresses incurred during the unscrewing or screwing or removal 15 of the closure 17.

The device has a number of practical advantages, the screwdriver tip or tool 15 is available at all times for use with the lighter, it is of convenient size and type for the work required; and the tip forms a flat surface suitable for easy manipulation by the fingers of the operator. The magnetic qualities introduced in the lighter screw 17 and cap 14 keep the parts accessible, instead of free to wander off without control, as is usually the case. The protector 14 keeps the tip 15 free from injury. This protector may be kept placed on the cap 14, when the latter is removed and then taken off when the tip is to be used. Thus in case the casing 10 is dropped 30 it will have its tip protected by this protector. It is to be understood that the screw driver tip 15 may be of any form suitable as a tool for the removal of the closure or screw 17, and that the material of which the casing, cap and closure 35 are made may be magnetic in the form of iron or other metal or of plastic or any other composition made to include magnetic qualities, as is now known in the arts.

While but one general form of the invention 40 is shown in the drawings and described in the

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specification, it is not desired to limit this application for patent to this particular form, as it is appreciated that other forms of construction could be made that would use the same principles and come within the scope of the appended claim.

Having thus described the invention, what is claimed is:

A fuel container for dispensing liquid fuel to a lighter, comprising a casing, a hollow screw threaded stem at the dispensing end of the casing, said stem terminating in an open end, a cap threaded to said stem, said cap being dome-shaped and terminating in a tool tip usable to remove the screwthreaded closure of the lighter, said cap being magnetized to retain the screwthreaded closure of the lighter, an internal washer between said stem and the internal wall of the cap, said washer closing the open end of the hollow stem when the cap is screwed in place, said cap having an external peripheral shoulder thereon, a chain retaining said cap to said casing when the cap is unscrewed, and a cover over the cap in frictional engagement therewith and resting on said shoulder, said cover providing a shield over the tool end of the cap.

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