

124,336

PATENT



SPECIFICATION

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PROVISIONAL SPECIFICATION.

Improvements in Pocket Lighters.

I, HARRY ALLDAY, of 195, Warstone Lane, Birmingham, Manufacturer, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to pocket lighters for cigars, cigarettes, pipes and the like, or for other purposes, of that type in which a wick or tinder is ignited by the sparks produced by the frictional contact of a steel or other metallic striker with a piece of pyrophoric or spark-producing substance usually carried by a detachable cap or cover, a suitable container or reservoir being provided carrying the wick or tinder and also a suitable absorbent material adapted to be saturated with an inflammable spirit.

10 The object of the present invention is to provide an improved and simplified construction of lighter.

15 According to the invention the striker consists of an angular strip of steel fixed upon the top or end of the container or reservoir; and the latter consists of a tubular body fitted within one end with a cap carrying the striker as aforesaid and, at the opposite end, provided with a detachable cap or plug for filling; the cap or cover which carries the pyrophoric material fitting directly over the protruding end of the striker-carrier cap and being frictionally held thereon.

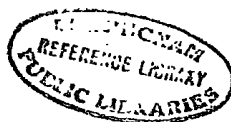
20 In carrying out the said invention the lighter comprises a tubular body of round, oval or other convenient section, which is preferably cut off from a length of tubing. The upper end is closed by a cap which fits closely inside the end of the body so as to provide a short distance therefrom and is secured in place by soldering. This cap, which is preferably produced from a flat blank by drawing-through processes, carries upon its flat crown a steel striker in the form of a short strip of steel bent at right-angles at its middle and fixed by means of a rivet or screw passing through one of the flanges thus formed, so that the other flange extends vertically at right-angles to the crown of the cap, the upper edge preferably being bevelled to a knife-edge. The cap has fixed within an aperture a short guide tube for containing the wick.

30 The lower end of the tubular body is left open for filling with cotton-wool or the like and with petrol, but it is adapted to be closed by means of a detachable cap fitting over the outside of the body and held by friction or by a snap fastener, such as a projection on the one part engaging with a recess in the other part. The cap may be made from a blank by drawing-through processes.

35 Or, instead of a detachable cap being used for filling, the end of the body may be closed by a plate or fixed cap having a hole to receive a detachable screw-plug.

The extinguisher cap or cover is of tubular form and of the same size as the

[Price 6d.]



body, and has a closed top (which may be a separate plate or cap soldered in place). The pyrophoric substance is carried by a shoe or holder fixed to the top of the cap or detachably connected thereto by a screw shank or by other means.

The said cap or cover fits frictionally over the protruding end of the striker-carrier or cap which is secured within the upper end of the body, the lower edge abutting against the shoulder formed between said striker-carrier and the tubular body, so that the surface of the extinguisher cap is flush with the surface of the body. 5

Dated this 10th day of June, 1918. 10

H. N. SKERRETT,
Chartered Patent Agent,
24, Temple Row, Birmingham.
Agent for Applicant.

COMPLETE SPECIFICATION. 15

Improvements in Pocket Lighters.

I, HARRY ALLEDAY, of 195, Warstone Lane, Birmingham, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:— 20

This invention relates to pocket lighters for cigars, cigarettes, pipes and the like, or for other purposes, of that type in which a wick is ignited by the sparks produced by the frictional contact of a steel or other metallic striker with a piece of pyrophoric or spark-producing substance carried by a detachable cap or cover, a suitable container being provided which carries the wick and a suitable absorbent material adapted to be saturated with an inflammable spirit. 25

The object of the present invention is to provide an improved and simplified construction of lighter.

According to the invention the container consists of a tubular body within the interior of whose upper open end is fitted and secured an inverted cup-shaped closure or terminal piece carrying the steel striker, the walls of said closure fitting closely against the interior of the body from the end of the latter but protruding from the said body so as to form therewith an external shoulder, and the extinguisher cap, which carries externally the pyrophoric substance, being adapted to fit directly over the protruding portion of the cup-shaped closure piece and to abut against the said shoulder, being held in place by friction, and its surface coming flush with the surface of the tubular body. The opposite end of the body is adapted to be closed by a detachable cap or plug for filling. The steel striker consists of an angular strip of steel fixed upon the top or end of the container. 30 35 40

Figure 1 of the accompanying drawings represents a side elevation of the improved lighter, the extinguisher cap being shown removed.

Figure 2 is a longitudinal section through the lighter.

Figure 3 represents a longitudinal section through the body of the case with the filler cap removed. 45

Figure 4 is an end view of said body.

Figure 5 shows the extinguisher cap in section and end view with the ceric or spark-producing material removed.

Figure 6 illustrates the ceric holder separately, in end view and section.

The lighter comprises a tubular body 1 of oval, round, or other convenient section, and preferably cut off from a length of drawn tubing. The upper end 50

is closed by an inverted cup-shaped member 2 which fits closely inside the end of the body so as to protrude a short distance therefrom, and is secured in place by soldering. This cup-shaped closure 2, which is preferably produced from a flat blank by drawing-through processes, carries upon its end or crown a steel striker 3 in the form of a short strip of steel bent at right-angles at its middle and fixed by means of a rivet 4, or by a screw, passing through the flange or base 5, so that the turned-up striker part 3 extends vertically at right-angles to the crown of the closure 2, the upper edge preferably being bevelled to a knife-edge. The said closure 2 has fixed within an aperture a short guide tube 6 for containing the wick 7.

The lower end of the tubular body 1 is left open for filling with cotton-wool or the like 8 and with petrol, but it is adapted to be closed by means of a detachable cap 9 fitting over the outside of the body and held by friction or by a snap fastener, such as a projection 10 on the one part engaging with a recess 11 in the other part. The cap 9 may be made from a blank by drawing-through processes. Or, instead of a detachable cap being used for filling, the end of the body may be closed by a plate or fixed cap having a hole to receive a detachable screw-plug.

The extinguisher cap or cover 12 is of tubular form and of the same size as the body, and has a closed top. The ceric or pyrophoric substance 13 is carried by a shoe or holder 14 connected (preferably detachably) to the cap 12 by any suitable means, such as by ears 15 passed through slots 16 in the cap and clenched over upon the inside. The said cap or cover 12 fits frictionally over the protruding end of the striker-carrier or closure 2, the lower edge abutting against the shoulder 17 formed between said striker-carrier 2 and the tubular body, so that the surface of the extinguisher cap is flush with the surface of the body.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In a pocket lighter of the type referred to, a container consisting of a tubular body (1) within one end of which is fitted and secured an inverted cup-shaped closure (2) carrying the striker, the walls of said closure fitting closely against the interior of the body from the end of the latter, but protruding from the said body, so as to form therewith an external shoulder (17) and the extinguisher cap, which carries externally the pyrophoric substance, being adapted to fit directly over the protruding portion of the closure and to abut against the said shoulder, its surface coming flush with the surface of the tubular body, substantially as described.

2. In a pocket lighter of the type referred to; a striker consisting of an angular strip of steel fixed upon the top or end of the container, substantially as described.

3. The improved pocket lighter substantially as herein described and set forth.

Dated this 5th day of December, 1918.

H. N. SKERRETT, A.I.Mech.E.,
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Fig. 1.

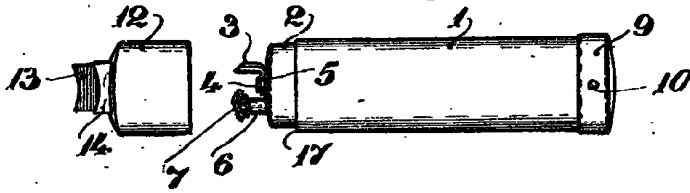


Fig. 2.

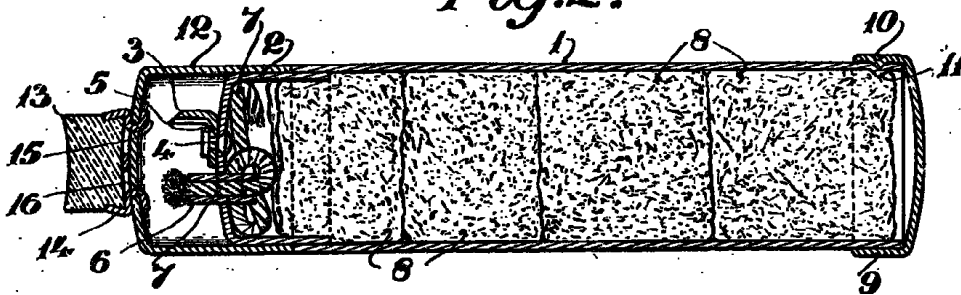


Fig. 5.

Fig. 3.

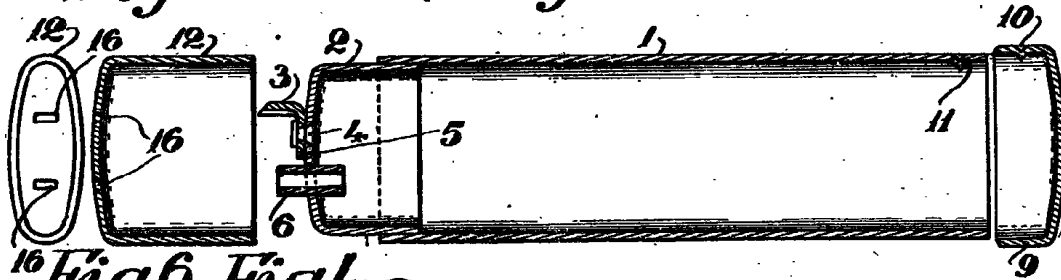
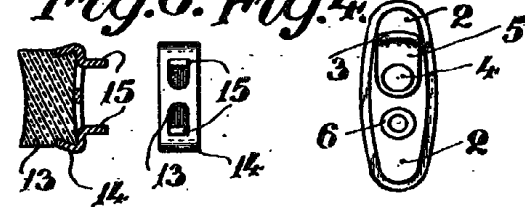


Fig. 6. Fig. 4.



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