

Application Date: April 27, 1931. No. 12,432/31.

Complete Accepted: July 21, 1932.

COMPLETE SPECIFICATION.



Improvements in or relating to Pocket Lighters for Cigarettes and the like.

I, KARL SCHIEDER, a German Citizen of 9, Markgrafenstrasse, Nurnberg, Germany 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:—

This invention relates to a pocket lighter having a rigid casing closed on all sides. In known pocket lighters of this type, the movable parts are inserted singly into the casing. The assembling of the lighter is rendered difficult by the closed form of the casing and is a lengthy operation and expensive. If, instead of a closed casing, a casing is used which is open at several places, the casing, after the lighter has been assembled, must be closed by soldering or welding, which likewise involves difficulties.

According to the invention, the aforementioned disadvantages are obviated in that the lighter comprises a rigid casing with openings for the flame and for a push stud and open at one side, further a frame in which all the parts pertaining to the ignition are arranged and which is inserted as a whole at the open side in the casing, and a cover which closes the open side of the casing.

A constructional example of the new lighter is shown in the accompanying drawings, wherein:—

Figure 1 is a vertical section along the line A—A in Figure 3,

Figure 2 is a section along the line C—C in Figure 1,

Figure 3 is a horizontal section along the line B—B in Figure 1,

Figures 4 and 5 show the insertable frame in side elevation and in plan view respectively,

Figure 6 shows the wick cap in perspective and,

Figure 7 is an elevation of the finished lighter.

The casing 1 has a cut out portion or recess 2 on one of the narrow sides. The opposite narrow side is closed by a cover 3 provided with air holes 4. Into the lower part of the casing 1 is inserted a petrol container 5 wherein are arranged a tube 40 for keeping flints and a tube 41

[Price 1/-]

The flint 7 is pressed against a friction wheel 8 by a spring 9 bearing at its lower end against a screw 10. The head of the screw 10 serves at the same time to close the tube 40.

In the upper part of the casing 1 is located a frame 11, to which all the other parts of the lighter are attached. On round pins 12 supported in the frame are mounted the friction wheel 8 and a toothed wheel 14, which in the known manner are provided with lateral teeth and are pressed against one another by a spring 15.

The toothed wheel 14 engages a rack 18 provided on a wick cap 17. The cap, which normally closes the cut out portion 2 is provided with two grooves 19 (Figure 6) wherein engage two ledges 20 of the frame 11 which serve as a guide for the cap. The cap is pressed downwardly by a spring 21.

The toothed wheel 14 also engages a toothed segment 23 which turns about a pin 24, and to which is pivoted by means of a pin 25 a push stud 26 having its head 29 adapted to be unscrewed, for which purpose a screw 13, passing through the head and into the stud, is preferably used. A spiral spring 30 is wound round the pin 24, and one end of the said spiral spring bears against a lug 32 on the frame, while with the other end the spring tends to force the push stud outwardly as far as the wick cap allows, which, on upward movement of the push stud, moves downwardly and abuts against the petrol container.

The frame 11 consists of an upper wall 35 and two lateral walls 34 in which are located cut out portions 36 and on which are provided the guide ledges 20 for the wick cap 17. The frame 11 is secured by screws 37 to the upper wall of the casing 1.

In order to assemble the lighter the parts attached to the frame 11 are brought into the position shown in Figure 4, the push stud 26 being pressed downwardly. First of all, the frame 11 is inserted in the casing 1 and then the petrol container. The push stud, which up to this

time has been held down, can now be released, whereupon the parts take up the position shown in Figure 1. Finally the flint is inserted, the cover 3 is fastened, and the head 29 is screwed on to the push stud.

Ignition takes place in the known manner.

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. A pocket lighter for lighting cigarettes and the like, comprising a rigid casing with openings for the flame and for a push stud and open at one side, further a frame in which all the parts pertaining to the ignition are arranged and which is inserted as a whole at the open side in the casing, and a cover which closes the open side of the casing.

2. A pocket lighter as claimed in claim 1 in which the wick cap is adapted to be moved by a toothed segment and a toothed wheel, characterised in that spindles (for example 24 and 12) of the toothed segment and of the toothed wheel are mounted in the frame on which also guide rails for the wick cap are provided,

and which carries a spring (for example 21) pressing on the wick cap and also a spring (for example 30) acting on the toothed segment.

3. A pocket lighter as claimed in claims 1 and 2, characterised in that the push stud through the medium of which the ignition is effected, is pivotally connected to the toothed segment by a pin (for example 25).

4. A pocket lighter as claimed in claim 3, characterised in that the push stud has a screwed on head.

5. A pocket lighter as claimed in claim 2, characterised in that the guide rails for the wick cap are constituted by bent-over portions of the edges of the frame.

6. A pocket lighter as claimed in claim 1, characterised in that the frame consists of an upper wall and two lateral longitudinal walls.

7. A pocket lighter substantially as described or substantially as shown in the accompanying drawing.

Dated this 27th day of April, 1931.

KARL SCHIEDER.

Per: Boulton, Wade & Tennant,
111/112, Hatton Garden, London, E.C. 1.
Chartered Patent Agents.

[This Drawing is a reproduction of the Original on a reduced scale.]

