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COMPLETE SPECIFICATION.

Improvements in Pyrophoric Lighters.

I, KARL SCHIEDER, of 9, Markgrafenstrasse, Nuremberg, Germany, a German citizen, 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 pyrophoric lighter of the kind wherein the fuel container and wick and the friction-wheel igniting mechanism are enclosed within a casing having a flame aperture which is normally closed by a pivotally movable wick cap within the casing.

In a known lighter of this kind, the wick cap is controlled by an articulated lever mechanism which is operated through the medium of a press-button for the withdrawal of the cap.

The object of the present invention is to obtain a lighter which is particularly efficient and reliable, and the invention consists essentially in mounting the wick cap on a rigid pivoted lever, one end of which projects for operation through a slot in the casing.

The lever may be fitted with a rack adapted, on the lever being operated, to co-operate with a pinion for rotating the friction wheel.

Fig. 1 of the accompanying drawings represents a front view of a lighter constructed according to the invention.

Fig. 1a is a side view of the same.

Fig. 2 is a front view showing the lever in operated position,

Fig. 3 is a bottom plan of the lighter,

Fig. 4 is a front view of a lighter of modified construction,

Fig. 5 is a front view of this lighter showing the lever in operated position,

Fig. 6 is a front view showing a further modification of the lighter,

Fig. 7 is a side view of the latter, and

Fig. 8 is a front view of the same lighter separated from its casing.

The lighter comprises a casing A having preferably a curved top in which an aperture is made for the emission of the flame D. The latter emanates from

a wick which is held by a wick tube S under the aperture and which is normally closed by a wick cap C carried by one arm of a rigid lever I arranged to rock within the casing about a pivot G. The other arm of the lever projects through a slot L in the side wall M of the casing and is fitted with a knob B by means of which the lever can be rocked in opposition to a spring H for uncovering the wick.

In the arrangement illustrated in Figs. 1 and 2, the lever is also adapted to serve as a cigar cutter and for that purpose provided with a blade K adapted, on the knob being depressed, to pass across an aperture E made in the front wall of the casing for the insertion of the cigar tip. In the bottom wall of the casing an aperture F is made through which the severed cigar tip can be discharged.

The top of the casing A may be curved concentrically with the pivot G, as shown in Figs. 4 and 5, in which case the wall can serve as an effective guide for the wick cap C.

As a further development of the invention, the lever I may be employed for operating the friction wheel. Such an arrangement is illustrated in Figs. 6—8. The fuel container T, which carries the wick tube S and the pyrophoric element R, is provided with a pair of bearing brackets Z for the pivot G and for the shaft of the friction wheel N. Connected to the latter is a pinion P which meshes with a curved rack O carried by an arm projecting from the lever I. The latter, on being operated for uncovering the wick, also rotates the friction wheel for igniting the fuel.

The lower part of the fuel container T is brought forward, as shown in Fig. 8, so as to form an abutment for limiting the movement of the lever I.

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 pyrophoric lighter of the kind

[Price 1/-]

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- referred to wherein the wick cap is carried by a rigid pivoted lever one end of which projects for operation through a slot in the casing.
- 5 2. A lighter according to claim 1 wherein the lever is adapted to serve as a driving member for the friction wheel of the lighter.
- 10 3. A lighter according to claim 2 wherein the lever drives the friction wheel through the medium of a curved rack which co-operates with a pinion connected to the wheel.
4. A lighter according to any of claims 1 to 3 comprising a fuel container having a projecting lower portion adapted to serve as an abutment for limiting the movement of the lever. 15
5. A pyrophoric lighter constructed substantially as hereinbefore described and with reference to the accompanying drawings. 20

Dated the 1st day of January, 1934.

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

