

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in or relating to Pyrophoric Pocket Lighters.

I, HANS SILBERKNOPF, of 123, Geblergasse, Vienna, XVII, Austria, a citizen of the Republic of Austria, 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 improvements in pyrophoric pocket lighters provided with a longitudinally slidably wind screen or cover for protecting the flame against the wind and a closing or wick-cap for the wick hinged thereto, and essentially consists in that the wick-cap is connected with the body portion of the lighter by means of operating means in such a manner that the said cap is automatically lifted off and then rotated away from the wick on raising the wind screen into the operative position.

Owing to this arrangement the lighter can be handled comfortably and further the drawback is avoided, that the wick-cap, smelling from petrol, has not to be grasped by hand as it is usually the case in the known constructions in which the wick-cap is hinged to the wind-screen only by means of a bracket.

One mode of carrying out the present invention is illustrated by way of example on the accompanying sheet of drawings in which:—

Figs. 1 and 2 show in elevation the lighter with the wind-screen in the inoperative and operative position respectively.

The pyrophoric pocket lighter is mainly of known construction. The reference character 1 designates the petrol receptacle, 2 is the sleeve carrying the flint and 3 the serrated wheel, which works on the latter and is rotatably mounted on the sleeve 2. A screen or cover 4 for protecting the flame against the wind

is mounted slidably on the petrol receptacle 1, and a closing cap 5 for the wick 6 is pivotally secured to the protective cover 4 by means of arms 7. According to the present invention, on sliding the wind protective cover 4 into the operative position, the closing cap 5 is automatically lifted off and then rotated away from the wick and again placed onto the latter on sliding back the said cover into the inoperative position. Different transmitting means may be employed for carrying out these movements. For instance, in the illustrated embodiment the closing cap 5 is pivotally secured to a yielding rod 9 by means of a bracket 8, the said rod being secured to the petrol receptacle 1. When the protective cover 4 is pushed forward into the operative position, the closing cap 5 is moved along in the same direction as the cover 4, e.g. in the axial direction, until it is clear of the wick when it is laterally rotated for about 90 degrees by the bracket 8, which is then subjected to tension only. On pushing back the protective cover 4 into the initial position the closing cap is operated in the opposite manner and returned into the shutting position. The wind protective cover 4 is provided with recesses 10 for ensuring a comfortable operation. The end 11 of the rod 9 is bent off at a right angle and passes underneath the bottom of the petrol receptacle and is secured in position by the fixed collar 12 of the closing screw 13 of the receptacle 1. Thus after unscrewing the screw 13 it is possible to remove from the lighter without difficulty the wind protective cover 4 with the closing cap 5 and the bracket 8 and rod 9. This is of great advantage if it is desired to repair or clean the match-box.

Having now particularly described and ascertained the nature of my said inven-

tion and in what manner the same is to be performed, I declare that what I claim is:—

1. A pyrophoric pocket lighter with a
5 longitudinally slidable wind screen and a wick-cap hinged thereto, in which the wick-cap is connected with the body of the lighter by the aid of operating means in such a manner, that on raising the
10 wind-screen into the operative position, the said cap is automatically lifted off, and then rotated away from the wick.

2. A lighter as claimed in Claim 1 in which the wick cap is hinged to a fixed
15 pivot of the body of the lighter by means of a bracket (8), the pivot being so placed that on sliding the wind-screen into the operative position the bracket effects the rotation of the wick cap (5) only when
20 the latter has been lifted off the wick (6).

3. A lighter as claimed in Claim (2),

in which the fixed pivot of the bracket (8) is mounted on a rod (9), provided with an angularly bent off end (11) which, by means of a closing screw (13) of the
25 petrol-receptacle (1), is removably attached to the latter in such a manner, that after removing the said screw the wind-screen (4) together with the wick-cap (5), bracket (8) and rod (9) can be
30 removed from the lighter.

4. A pyrophoric pocket lighter constructed, arranged and adapted to operate substantially as described and illustrated.

Dated this 27th day of March, 1926. 35

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Fig. 1

Fig. 2

[This Drawing is a full-size reproduction of the Original.]

