

PATENT SPECIFICATION

270,634

Convention Date (France) : May 10, 1926.

Application Date (in United Kingdom) : Dec. 16, 1926. No. 31,885 / 26.

Complete Accepted : July 14, 1927.

COMPLETE SPECIFICATION.



Improvements in Pocket Lighters.

We, SOCIÉTÉ ANONYME DITE: "ÉTABLISSEMENTS STRAUSS ALLARD, MEYER," a French company, of 19, rue Louis-le-Grand, Paris, France, 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 of the type employing petrol or other spirit, and a flint such as ferrocium, the flint being mounted adjustably and under spring action in a tube contained within the spirit reservoir, and actuated by a friction wheel mounted within a casing having a single opening opposite the wick. The object of the present invention is to provide such a lighter which can be easily and conveniently handled and taken to pieces, and in which the parts are protected so that they always remain in good working order. According to the invention the friction wheel is mounted upon a spindle within the casing so that dust arising from the use of the apparatus is not spread indiscriminately over the latter, and the opposite ends of the friction-wheel spindle carry milled actuating wheels located respectively outside the casing. Further according to the invention the tube carrying the flint is located in the spirit reservoir in such a manner that one end thereof lies adjacent to the filling aperture of the reservoir and a single screw stopper is employed to control both, so that when the reservoir is refilled, the tube containing the flint can be quickly and conveniently extracted and the latter examined and adjusted or renewed as desired.

The invention is more particularly described below with reference to the accompanying drawings, in which:

Fig. 1 shows the lighter in external elevation, the cap being placed down over the wick.

Fig. 2 is a plan view from beneath.

Fig. 3 is an elevation as in Fig. 1 the cap being raised.

Fig. 4 is a plan view from beneath, the screw-stopper having been removed.

Fig. 5 is a plan corresponding to Fig. 1.

Fig. 6 is a sectional view, the cap being raised, and the screw-stopper of the reservoir being shown separately.

Fig. 7 shows separately upon an enlarged scale and in section, the tube carrying the flint of ferrocium.

Fig. 8 shows upon an enlarged scale, the mechanism for causing friction with the flint. This view is looking towards the opening, in which the friction wheel is seen, opposite to the wick.

The body of the apparatus is formed by a reservoir for petrol or like spirit 1, of a suitable shape such as shown in the drawings by way of example, to allow of the object being easily carried in the pocket. The shape of the reservoir may however be different, for example, it may be of prism form.

The bottom of the reservoir is provided with an orifice 1¹ drilled therein, which receives a screw-stopper 2; the latter has a head 2¹, which forms an overlapping rim, which fits into a recess 1¹¹ in the bottom of the reservoir when the stopper is screwed into the orifice. At the bottom of this recess and adjacent the orifice 1¹ is located the end of a tube 7, which passes through the reservoir 1 and emerges on the other side on the upper wall of the reservoir beneath the friction mechanism described hereafter. At this point, the upper wall of the reservoir is provided with a small orifice 1^a having the same diameter as the flint and beside it an orifice 1^b is also provided, in which the end of the wick 15, which dips into the reservoir 1, is held.

The flint 6 held in the orifice 1^a is pushed upwards by a spring 4 located

[Price 1/-]

in a tube 3 and held in place by a threaded stopper 5 screwed into the end of the tube.

The tube 3 is contained within the tube 7 in such a manner that its end only just projects at the bottom of the recess 1^u, and is thus held in position by the rim 2^l of the stopper 2, when the latter is screwed in.

By means of this arrangement, when the screw-stopper 2—2^l is removed, it is possible to fill the reservoir and also, if necessary, to remove the tube 3 in order to inspect or replace the flint 6.

The friction wheel 9 is mounted within a casing 8 which has only one opening opposite the wick 15; the friction wheel being thus protected, the dust resulting from using the apparatus cannot spread over the latter which remains always clean.

The friction wheel 9 is rigidly mounted upon a spindle 10 provided with two milled knobs 11 located outside the casing 8. This mechanism allows the person using the apparatus to handle the friction wheel very easily and without dirtying the fingers.

An arm 12 pivotally mounted at 13 and controlled by a spring 14 carries a cap which covers the end of the wick.

This lighter has the advantages of being easily handled and having its parts

well protected, and also allows of being quickly and easily taken to pieces. 35

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:— 40

1. A pocket-lighter of the type described wherein the friction wheel is mounted upon a spindle within the casing, milled actuating wheels being provided upon the opposite ends of the spindle and located externally to the casing. 45

2. A pocket-lighter of the the type described, and as set forth in Claim 1, wherein the usual tube carrying the flint is so disposed that one end lies adjacent to the filling orifice for the petrol or like reservoir, a single screw stopper controlling both in the manner and substantially as described. 55

3. A pocket-lighter substantially as set forth with reference to the accompanying drawings.

Dated this 21st day of June, 1927.

For the Applicants, 60
 GEORGE HAM, B.Sc.(Lond.),
 A.F.R.Ae.S., M.A.M.E.E.,
 Chartered Patent Agent,
 93/4, Chancery Lane, London, W.C. 2.

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

