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PATENT SPECIFICATION



Convention Date (Austria): Apr. 3, 1919.

151,627

Application Date (in United Kingdom): Sept. 24, 1920. No. 27,260/20.

Complete not Accepted.

COMPLETE SPECIFICATION.

Improvements in and relating to Pyrophoric Pocket Lighters.

I, JULIUS VON PETRAVIC, of Vienna, 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:—

The subject of the present invention is a pyrophoric pocket lighter, which is characterised by this, that a one-armed lever is rotatably mounted on the stirrup carrying the wick cap and capable of oscillating about the igniting wheel axle, the said lever constituting the thumb piece of the stirrup and a locking member acting upon the igniting wheel. The thumb piece constituting the locking member is, by means of the pressure directed tangentially in the sense of the upward swing of the stirrup, first of all brought into the operative position and then the stirrup carrying the cap and with it the friction wheel is set in rotation.

A constructional form of a pyrophoric pocket lighter made in accordance with this invention is illustrated in the accompanying drawings in which:

Fig. 1 is a vertical section taken through the lighter in the position of repose, Fig. 2 a side elevation of Fig. 1 viewed from the left, and Fig. 3 a section along A—A in Fig. 2; Fig. 4 shows the pocket lighter after ignition has been effected.

In the constructional form shown, the "flint" guide socket *w*, which at the

same time forms the bearing block of the axle of the file wheel, is arranged on the side of the petrol lamp *t*. The stirrup *n* carrying the wick cap *a* is rotatably mounted on the axle of the file wheel *v*, and a one-armed lever *m* bent over the file wheel is rotatably mounted in the stirrup. The pivot of this lever is arranged at a short distance from the periphery of the file wheel *v*, so that the part thereof immediately contiguous to the boss *o* or projecting towards the igniting wheel will be immediately pressed against the file wheel *v* and act as a lock, upon a tangential pressure being set up acting downwardly to the right, while by the continuance of this pressure acting upon the arm *m*, the stirrup *n* carrying the wick cap *a* will be swung up in the sense of the arrow 1 into the position shown in Fig. 4 and the file wheel *v* carried round with it.

In the return of the stirrup *n* to the position of repose shown in Fig. 1, the thumb piece *m* will slide over the file wheel without actuating it, because it will already have been thrown out of the locking position to a position *m*¹, somewhat as shown in dotted lines in Fig. 4 by the commencement of this movement.

It may be remarked, that pocket lighters, in which the file wheel is actuated by means of a tangential force exercised directly by hand, are known *per se*. In these lighters the wick cap

[Price 1/-]

however is arranged entirely separate and must be lifted off by hand before actuating the igniting wheel; these lighters have also the drawback, that the soot adhering to the igniting wheel blackens the finger and that the lever arm on which the finger operates is represented by the relatively small diameter of the file wheel.

It is likewise known, to arrange the wick cap on a stirrup capable of oscillating about the axle of the file wheel and to mount the pawl therein; as opposed to these constructions it is however new, to form the locking member as a one-armed thumb-piece which acts, by means of a tangential pressure in the direction of the upward swing of the stirrup, upon the igniting wheel and carries it round with it together with the stirrup.

It is also possible, instead of allowing the arm *m* to act directly upon the igniting wheel *v*, to cause it to act upon a small ratchet wheel rigidly coupled to it. This would however only complicate the construction of the lighter.

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. Pyrophoric pocket lighter, characterised by this, that a one-armed lever is rotatably mounted in the stirrup carrying the wick cap and capable of oscillating about the igniting wheel axle, the said lever constituting the thumb piece of the stirrup and a locking member acting upon the igniting wheel.

2. Pyrophoric pocket lighter as claimed in Claim 1, characterised by this, that the arm, which constitutes the locking member and the thumb piece, has the form of an arc bent over the igniting wheel and is mounted in such proximity to the periphery of the igniting wheel, that the portions of the arm immediately contiguous to the boss will be applied to the igniting wheel at the slightest rotation thereof and act as a locking member.

3. Pyrophoric pocket lighter, constructed and operating substantially as described with reference to the accompanying drawings.

Dated this 23rd day of September, 1920.

MARKS & CLERK.

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

